

# CAPACITY TABLES

## G3. Cooling capacity with PUHY-RP450-650YSJM

PCFY-P-VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.1 | 4.8             | 3.3 | 5.0             | 3.3 | 5.3             | 3.2 | 5.7             | 3.2 |
|                          | 73                | 22.5 | 4.2               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.8             | 3.3 | 5.0             | 3.3 | 5.3             | 3.2 | 5.6             | 3.2 |
|                          | 77                | 25.0 | 4.2               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.7             | 3.2 | 4.9             | 3.3 | 5.2             | 3.2 | 5.6             | 3.2 |
|                          | 82                | 27.5 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.0 | 4.7             | 3.2 | 4.9             | 3.3 | 5.2             | 3.2 | 5.4             | 3.1 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.0 | 4.6             | 3.2 | 4.8             | 3.2 | 5.1             | 3.2 | 5.4             | 3.1 |
|                          | 91                | 32.5 | 4.1               | 3.0 | 4.1             | 3.0 | 4.4             | 3.0 | 4.5             | 3.2 | 4.8             | 3.2 | 5.1             | 3.2 | 5.4             | 3.1 |
|                          | 95                | 35.0 | 4.0               | 2.9 | 4.1             | 3.0 | 4.4             | 3.0 | 4.5             | 3.2 | 4.7             | 3.2 | 5.0             | 3.1 | 5.4             | 3.1 |
|                          | 100               | 37.5 | 4.0               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.1 | 4.7             | 3.2 | 5.0             | 3.1 | 5.3             | 3.1 |
|                          | 104               | 40.0 | 3.9               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.1 | 4.6             | 3.1 | 5.0             | 3.1 | 5.3             | 3.1 |
|                          | 110               | 43.0 | 3.9               | 2.9 | 3.9             | 2.9 | 4.2             | 2.9 | 4.3             | 3.1 | 4.5             | 3.1 | 4.9             | 3.1 | 5.2             | 3.0 |
| 63<br>(7.1)              | 68                | 20.0 | 6.7               | 4.8 | 6.9             | 4.9 | 7.4             | 4.9 | 7.6             | 5.1 | 7.9             | 5.1 | 8.4             | 5.1 | 8.9             | 5.0 |
|                          | 73                | 22.5 | 6.7               | 4.8 | 6.9             | 4.9 | 7.3             | 4.8 | 7.5             | 5.1 | 7.8             | 5.1 | 8.3             | 5.0 | 8.8             | 4.9 |
|                          | 77                | 25.0 | 6.6               | 4.7 | 6.8             | 4.8 | 7.2             | 4.8 | 7.5             | 5.1 | 7.7             | 5.0 | 8.2             | 5.0 | 8.8             | 4.9 |
|                          | 82                | 27.5 | 6.5               | 4.7 | 6.7             | 4.8 | 7.2             | 4.8 | 7.4             | 5.0 | 7.7             | 5.0 | 8.2             | 5.0 | 8.5             | 4.8 |
|                          | 86                | 30.0 | 6.5               | 4.7 | 6.6             | 4.7 | 7.1             | 4.7 | 7.3             | 5.0 | 7.6             | 5.0 | 8.1             | 4.9 | 8.6             | 4.9 |
|                          | 91                | 32.5 | 6.4               | 4.6 | 6.5             | 4.7 | 7.0             | 4.7 | 7.2             | 4.9 | 7.5             | 4.9 | 8.0             | 4.9 | 8.5             | 4.8 |
|                          | 95                | 35.0 | 6.3               | 4.6 | 6.4             | 4.6 | 6.9             | 4.6 | 7.1             | 4.9 | 7.4             | 4.9 | 8.0             | 4.9 | 8.4             | 4.8 |
|                          | 100               | 37.5 | 6.2               | 4.5 | 6.4             | 4.6 | 6.8             | 4.6 | 7.0             | 4.8 | 7.3             | 4.9 | 7.8             | 4.8 | 8.4             | 4.8 |
|                          | 104               | 40.0 | 6.1               | 4.5 | 6.3             | 4.6 | 6.8             | 4.6 | 6.9             | 4.8 | 7.2             | 4.8 | 7.8             | 4.8 | 8.3             | 4.8 |
|                          | 110               | 43.0 | 6.1               | 4.5 | 6.2             | 4.5 | 6.7             | 4.5 | 6.8             | 4.8 | 7.2             | 4.8 | 7.7             | 4.8 | 8.2             | 4.7 |
| 100<br>(11.2)            | 68                | 20.0 | 10.6              | 7.4 | 10.9            | 7.6 | 11.6            | 7.5 | 12.0            | 7.9 | 12.5            | 7.9 | 13.2            | 7.8 | 14.1            | 7.7 |
|                          | 73                | 22.5 | 10.5              | 7.4 | 10.8            | 7.5 | 11.5            | 7.5 | 11.9            | 7.9 | 12.3            | 7.8 | 13.2            | 7.8 | 13.9            | 7.7 |
|                          | 77                | 25.0 | 10.4              | 7.3 | 10.7            | 7.5 | 11.4            | 7.4 | 11.8            | 7.8 | 12.2            | 7.8 | 13.0            | 7.7 | 13.8            | 7.6 |
|                          | 82                | 27.5 | 10.3              | 7.3 | 10.5            | 7.4 | 11.3            | 7.4 | 11.6            | 7.7 | 12.1            | 7.8 | 12.9            | 7.7 | 13.4            | 7.5 |
|                          | 86                | 30.0 | 10.2              | 7.2 | 10.4            | 7.3 | 11.2            | 7.3 | 11.5            | 7.7 | 12.0            | 7.7 | 12.8            | 7.6 | 13.6            | 7.5 |
|                          | 91                | 32.5 | 10.1              | 7.2 | 10.3            | 7.3 | 11.0            | 7.2 | 11.3            | 7.6 | 11.9            | 7.7 | 12.7            | 7.6 | 13.4            | 7.5 |
|                          | 95                | 35.0 | 10.0              | 7.1 | 10.1            | 7.2 | 10.9            | 7.2 | 11.2            | 7.5 | 11.6            | 7.5 | 12.5            | 7.5 | 13.3            | 7.4 |
|                          | 100               | 37.5 | 9.9               | 7.0 | 10.0            | 7.1 | 10.8            | 7.1 | 11.0            | 7.5 | 11.6            | 7.5 | 12.4            | 7.5 | 13.2            | 7.4 |
|                          | 104               | 40.0 | 9.7               | 6.9 | 9.9             | 7.1 | 10.7            | 7.1 | 10.9            | 7.4 | 11.4            | 7.4 | 12.3            | 7.4 | 13.1            | 7.3 |
|                          | 110               | 43.0 | 9.6               | 6.9 | 9.8             | 7.0 | 10.5            | 7.0 | 10.8            | 7.4 | 11.3            | 7.4 | 12.1            | 7.4 | 13.0            | 7.3 |
| 125<br>(14.0)            | 68                | 20.0 | 13.2              | 9.2 | 13.7            | 9.5 | 14.6            | 9.4 | 15.0            | 9.8 | 15.6            | 9.9 | 16.5            | 9.7 | 17.6            | 9.6 |
|                          | 73                | 22.5 | 13.2              | 9.2 | 13.5            | 9.4 | 14.4            | 9.3 | 14.8            | 9.8 | 15.4            | 9.8 | 16.5            | 9.7 | 17.4            | 9.5 |
|                          | 77                | 25.0 | 13.0              | 9.1 | 13.4            | 9.3 | 14.3            | 9.3 | 14.7            | 9.7 | 15.3            | 9.7 | 16.2            | 9.6 | 17.3            | 9.5 |
|                          | 82                | 27.5 | 12.9              | 9.0 | 13.2            | 9.2 | 14.1            | 9.2 | 14.6            | 9.7 | 15.1            | 9.6 | 16.1            | 9.5 | 16.8            | 9.3 |
|                          | 86                | 30.0 | 12.7              | 8.9 | 13.0            | 9.1 | 14.0            | 9.1 | 14.4            | 9.6 | 15.0            | 9.6 | 16.0            | 9.5 | 16.9            | 9.3 |
|                          | 91                | 32.5 | 12.6              | 8.9 | 12.9            | 9.1 | 13.7            | 9.0 | 14.1            | 9.4 | 14.8            | 9.5 | 15.8            | 9.4 | 16.8            | 9.3 |
|                          | 95                | 35.0 | 12.5              | 8.8 | 12.7            | 9.0 | 13.7            | 9.0 | 14.0            | 9.4 | 14.6            | 9.4 | 15.7            | 9.4 | 16.7            | 9.2 |
|                          | 100               | 37.5 | 12.3              | 8.7 | 12.6            | 8.9 | 13.4            | 8.8 | 13.8            | 9.3 | 14.5            | 9.4 | 15.5            | 9.3 | 16.5            | 9.2 |
|                          | 104               | 40.0 | 12.1              | 8.6 | 12.4            | 8.8 | 13.4            | 8.8 | 13.6            | 9.2 | 14.3            | 9.3 | 15.4            | 9.2 | 16.4            | 9.1 |
|                          | 110               | 43.0 | 12.0              | 8.6 | 12.3            | 8.8 | 13.2            | 8.7 | 13.4            | 9.1 | 14.1            | 9.2 | 15.1            | 9.1 | 16.2            | 9.0 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## G4. Cooling capacity with PUHY-RP700-800YSJM

PCFY-P-VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |      |                 |      |                 |      |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|------|-----------------|------|-----------------|------|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |      | 82°FDB / 68°FWB |      | 86°FDB / 72°FWB |      | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |      | 28°CDB / 20°CWB |      | 30°CDB / 22°CWB |      | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC  | CA              | SHC  | CA              | SHC  | CA              | SHC |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.1 | 4.5             | 3.2 | 4.8             | 3.2 | 5.0             | 3.4  | 5.2             | 3.4  | 5.5             | 3.3  | 5.9             | 3.3 |
|                          | 73                | 22.5 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.1 | 4.9             | 3.3  | 5.1             | 3.3  | 5.4             | 3.3  | 5.8             | 3.3 |
|                          | 77                | 25.0 | 4.2               | 3.0 | 4.4             | 3.2 | 4.7             | 3.1 | 4.8             | 3.3  | 5.0             | 3.3  | 5.3             | 3.2  | 5.7             | 3.2 |
|                          | 82                | 27.5 | 4.1               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.7             | 3.2  | 4.9             | 3.3  | 5.2             | 3.2  | 5.6             | 3.2 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.0 | 4.7             | 3.2  | 4.8             | 3.2  | 5.1             | 3.2  | 5.5             | 3.2 |
|                          | 91                | 32.5 | 4.0               | 2.9 | 4.1             | 3.0 | 4.4             | 3.0 | 4.6             | 3.2  | 4.7             | 3.2  | 5.0             | 3.1  | 5.4             | 3.1 |
|                          | 95                | 35.0 | 3.9               | 2.9 | 4.1             | 3.0 | 4.3             | 3.0 | 4.5             | 3.2  | 4.6             | 3.1  | 5.0             | 3.1  | 5.3             | 3.1 |
|                          | 100               | 37.5 | 3.8               | 2.8 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.1  | 4.6             | 3.1  | 4.9             | 3.1  | 5.2             | 3.0 |
|                          | 104               | 40.0 | 3.8               | 2.8 | 3.9             | 2.9 | 4.2             | 2.9 | 4.3             | 3.1  | 4.5             | 3.1  | 4.8             | 3.0  | 5.1             | 3.0 |
|                          | 110               | 43.0 | 3.7               | 2.8 | 3.8             | 2.9 | 4.1             | 2.9 | 4.2             | 3.0  | 4.4             | 3.0  | 4.7             | 3.0  | 5.0             | 3.0 |
| 63<br>(7.1)              | 68                | 20.0 | 6.9               | 4.9 | 7.1             | 5.0 | 7.6             | 5.0 | 7.9             | 5.3  | 8.2             | 5.3  | 8.7             | 5.2  | 9.3             | 5.1 |
|                          | 73                | 22.5 | 6.7               | 4.8 | 7.0             | 4.9 | 7.5             | 4.9 | 7.8             | 5.2  | 8.0             | 5.2  | 8.6             | 5.1  | 9.1             | 5.1 |
|                          | 77                | 25.0 | 6.7               | 4.8 | 6.9             | 4.9 | 7.4             | 4.9 | 7.6             | 5.1  | 7.9             | 5.1  | 8.4             | 5.1  | 8.9             | 5.0 |
|                          | 82                | 27.5 | 6.5               | 4.7 | 6.7             | 4.8 | 7.2             | 4.8 | 7.5             | 5.1  | 7.7             | 5.0  | 8.3             | 5.0  | 8.8             | 4.9 |
|                          | 86                | 30.0 | 6.4               | 4.6 | 6.6             | 4.7 | 7.1             | 4.7 | 7.3             | 5.0  | 7.6             | 5.0  | 8.1             | 4.9  | 8.7             | 4.9 |
|                          | 91                | 32.5 | 6.3               | 4.6 | 6.5             | 4.7 | 7.0             | 4.7 | 7.2             | 4.9  | 7.5             | 4.9  | 8.0             | 4.9  | 8.5             | 4.8 |
|                          | 95                | 35.0 | 6.2               | 4.5 | 6.4             | 4.6 | 6.8             | 4.6 | 7.1             | 4.9  | 7.3             | 4.9  | 7.8             | 4.8  | 8.3             | 4.8 |
|                          | 100               | 37.5 | 6.1               | 4.5 | 6.3             | 4.6 | 6.7             | 4.5 | 7.0             | 4.8  | 7.2             | 4.8  | 7.7             | 4.8  | 8.2             | 4.7 |
|                          | 104               | 40.0 | 6.0               | 4.4 | 6.1             | 4.5 | 6.6             | 4.5 | 6.8             | 4.8  | 7.1             | 4.8  | 7.5             | 4.7  | 8.0             | 4.6 |
|                          | 110               | 43.0 | 5.8               | 4.3 | 6.0             | 4.4 | 6.4             | 4.4 | 6.6             | 4.7  | 6.9             | 4.7  | 7.3             | 4.6  | 7.8             | 4.6 |
| 100<br>(11.2)            | 68                | 20.0 | 10.8              | 7.5 | 11.2            | 7.7 | 12.0            | 7.7 | 12.5            | 8.2  | 12.9            | 8.1  | 13.8            | 8.1  | 14.6            | 7.9 |
|                          | 73                | 22.5 | 10.6              | 7.4 | 11.0            | 7.6 | 11.8            | 7.6 | 12.2            | 8.0  | 12.7            | 8.0  | 13.6            | 8.0  | 14.3            | 7.8 |
|                          | 77                | 25.0 | 10.5              | 7.4 | 10.9            | 7.6 | 11.6            | 7.5 | 12.0            | 7.9  | 12.4            | 7.9  | 13.2            | 7.8  | 14.1            | 7.7 |
|                          | 82                | 27.5 | 10.3              | 7.3 | 10.6            | 7.4 | 11.4            | 7.4 | 11.8            | 7.8  | 12.2            | 7.8  | 13.0            | 7.7  | 13.9            | 7.7 |
|                          | 86                | 30.0 | 10.1              | 7.2 | 10.5            | 7.4 | 11.2            | 7.3 | 11.6            | 7.7  | 12.0            | 7.7  | 12.8            | 7.6  | 13.7            | 7.6 |
|                          | 91                | 32.5 | 9.9               | 7.0 | 10.2            | 7.2 | 11.0            | 7.2 | 11.4            | 7.6  | 11.8            | 7.6  | 12.5            | 7.5  | 13.4            | 7.5 |
|                          | 95                | 35.0 | 9.7               | 6.9 | 10.1            | 7.2 | 10.8            | 7.1 | 11.2            | 7.5  | 11.5            | 7.5  | 12.3            | 7.4  | 13.1            | 7.3 |
|                          | 100               | 37.5 | 9.6               | 6.9 | 10.0            | 7.1 | 10.6            | 7.0 | 11.0            | 7.5  | 11.4            | 7.4  | 12.1            | 7.4  | 12.9            | 7.3 |
|                          | 104               | 40.0 | 9.4               | 6.8 | 9.6             | 6.9 | 10.4            | 7.0 | 10.8            | 7.4  | 11.1            | 7.3  | 11.9            | 7.3  | 12.6            | 7.2 |
|                          | 110               | 43.0 | 9.2               | 6.7 | 9.4             | 6.8 | 10.1            | 6.8 | 10.5            | 7.2  | 10.9            | 7.2  | 11.6            | 7.1  | 12.3            | 7.0 |
| 125<br>(14.0)            | 68                | 20.0 | 13.5              | 9.4 | 14.0            | 9.6 | 15.1            | 9.7 | 15.6            | 10.1 | 16.1            | 10.1 | 17.2            | 10.0 | 18.3            | 9.9 |
|                          | 73                | 22.5 | 13.3              | 9.3 | 13.8            | 9.5 | 14.8            | 9.5 | 15.3            | 10.0 | 15.8            | 10.0 | 16.9            | 9.9  | 17.9            | 9.7 |
|                          | 77                | 25.0 | 13.2              | 9.2 | 13.6            | 9.4 | 14.6            | 9.4 | 15.1            | 9.9  | 15.5            | 9.8  | 16.5            | 9.7  | 17.6            | 9.6 |
|                          | 82                | 27.5 | 12.9              | 9.0 | 13.3            | 9.3 | 14.3            | 9.3 | 14.8            | 9.8  | 15.3            | 9.7  | 16.3            | 9.6  | 17.4            | 9.5 |
|                          | 86                | 30.0 | 12.6              | 8.9 | 13.1            | 9.2 | 14.0            | 9.1 | 14.5            | 9.6  | 15.0            | 9.6  | 16.0            | 9.5  | 17.1            | 9.4 |
|                          | 91                | 32.5 | 12.4              | 8.8 | 12.8            | 9.0 | 13.7            | 9.0 | 14.2            | 9.5  | 14.7            | 9.5  | 15.7            | 9.4  | 16.7            | 9.2 |
|                          | 95                | 35.0 | 12.2              | 8.7 | 12.6            | 8.9 | 13.4            | 8.8 | 14.0            | 9.4  | 14.4            | 9.3  | 15.4            | 9.2  | 16.4            | 9.1 |
|                          | 100               | 37.5 | 12.0              | 8.6 | 12.5            | 8.9 | 13.2            | 8.7 | 13.7            | 9.2  | 14.2            | 9.2  | 15.1            | 9.1  | 16.1            | 9.0 |
|                          | 104               | 40.0 | 11.8              | 8.5 | 12.0            | 8.6 | 13.0            | 8.6 | 13.4            | 9.1  | 13.9            | 9.1  | 14.8            | 9.0  | 15.8            | 8.9 |
|                          | 110               | 43.0 | 11.5              | 8.3 | 11.8            | 8.5 | 12.6            | 8.5 | 13.1            | 9.0  | 13.6            | 9.0  | 14.5            | 8.9  | 15.4            | 8.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## G5. Cooling capacity with PUHY-RP850, 900YSJM

### PCFY-P-VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
| 40<br>(4.5)              | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 4.3               | 3.1 | 4.4             | 3.1 | 4.7             | 3.1 | 4.8             | 3.3 | 5.0             | 3.3 | 5.3             | 3.3 | 5.6             | 3.2 |
|                          | 73                | 22.5 | 4.2               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.8             | 3.3 | 4.9             | 3.3 | 5.3             | 3.2 | 5.6             | 3.2 |
|                          | 77                | 25.0 | 4.2               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.7             | 3.3 | 4.9             | 3.2 | 5.2             | 3.2 | 5.5             | 3.2 |
|                          | 82                | 27.5 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.7             | 3.2 | 4.8             | 3.2 | 5.2             | 3.2 | 5.5             | 3.2 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2             | 3.0 | 4.5             | 3.0 | 4.6             | 3.2 | 4.8             | 3.2 | 5.1             | 3.2 | 5.4             | 3.1 |
|                          | 91                | 32.5 | 4.0               | 3.0 | 4.1             | 3.0 | 4.4             | 3.0 | 4.6             | 3.2 | 4.7             | 3.2 | 5.1             | 3.2 | 5.4             | 3.1 |
|                          | 95                | 35.0 | 4.0               | 2.9 | 4.1             | 3.0 | 4.4             | 3.0 | 4.5             | 3.2 | 4.7             | 3.2 | 5.0             | 3.1 | 5.3             | 3.1 |
|                          | 100               | 37.5 | 3.9               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.5             | 3.1 | 4.6             | 3.1 | 5.0             | 3.1 | 5.3             | 3.1 |
|                          | 104               | 40.0 | 3.9               | 2.9 | 4.0             | 2.9 | 4.3             | 2.9 | 4.4             | 3.1 | 4.6             | 3.1 | 4.9             | 3.1 | 5.2             | 3.1 |
|                          | 110               | 43.0 | 3.8               | 2.9 | 3.9             | 2.9 | 4.2             | 2.9 | 4.4             | 3.1 | 4.5             | 3.1 | 4.9             | 3.1 | 5.2             | 3.0 |
| 63<br>(7.1)              | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 6.7               | 4.8 | 6.9             | 4.9 | 7.4             | 4.9 | 7.6             | 5.1 | 7.9             | 5.1 | 8.4             | 5.1 | 8.9             | 5.0 |
|                          | 73                | 22.5 | 6.6               | 4.7 | 6.8             | 4.8 | 7.3             | 4.8 | 7.5             | 5.1 | 7.8             | 5.1 | 8.3             | 5.0 | 8.8             | 4.9 |
|                          | 77                | 25.0 | 6.6               | 4.7 | 6.7             | 4.8 | 7.2             | 4.8 | 7.5             | 5.1 | 7.7             | 5.0 | 8.2             | 5.0 | 8.7             | 4.9 |
|                          | 82                | 27.5 | 6.5               | 4.7 | 6.7             | 4.8 | 7.1             | 4.7 | 7.4             | 5.0 | 7.6             | 5.0 | 8.2             | 5.0 | 8.7             | 4.9 |
|                          | 86                | 30.0 | 6.4               | 4.6 | 6.6             | 4.7 | 7.1             | 4.7 | 7.3             | 5.0 | 7.5             | 5.0 | 8.1             | 4.9 | 8.6             | 4.8 |
|                          | 91                | 32.5 | 6.4               | 4.6 | 6.5             | 4.7 | 7.0             | 4.7 | 7.2             | 4.9 | 7.5             | 4.9 | 8.0             | 4.9 | 8.5             | 4.8 |
|                          | 95                | 35.0 | 6.3               | 4.6 | 6.4             | 4.6 | 6.9             | 4.6 | 7.1             | 4.9 | 7.4             | 4.9 | 7.9             | 4.9 | 8.4             | 4.8 |
|                          | 100               | 37.5 | 6.2               | 4.5 | 6.3             | 4.6 | 6.8             | 4.6 | 7.0             | 4.9 | 7.3             | 4.9 | 7.8             | 4.8 | 8.4             | 4.8 |
|                          | 104               | 40.0 | 6.1               | 4.5 | 6.2             | 4.6 | 6.7             | 4.6 | 7.0             | 4.8 | 7.2             | 4.8 | 7.8             | 4.8 | 8.3             | 4.7 |
|                          | 110               | 43.0 | 6.1               | 4.4 | 6.2             | 4.5 | 6.6             | 4.5 | 6.9             | 4.8 | 7.2             | 4.8 | 7.7             | 4.8 | 8.2             | 4.7 |
| 100<br>(11.2)            | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 10.6              | 7.4 | 10.9            | 7.6 | 11.6            | 7.6 | 12.0            | 7.9 | 12.4            | 7.9 | 13.2            | 7.8 | 14.0            | 7.7 |
|                          | 73                | 22.5 | 10.5              | 7.3 | 10.8            | 7.5 | 11.5            | 7.5 | 11.9            | 7.9 | 12.3            | 7.8 | 13.1            | 7.8 | 13.9            | 7.7 |
|                          | 77                | 25.0 | 10.4              | 7.3 | 10.6            | 7.4 | 11.4            | 7.4 | 11.8            | 7.8 | 12.2            | 7.8 | 13.0            | 7.7 | 13.8            | 7.6 |
|                          | 82                | 27.5 | 10.2              | 7.2 | 10.5            | 7.4 | 11.2            | 7.3 | 11.6            | 7.8 | 12.0            | 7.7 | 12.9            | 7.7 | 13.7            | 7.6 |
|                          | 86                | 30.0 | 10.1              | 7.2 | 10.4            | 7.3 | 11.1            | 7.3 | 11.5            | 7.7 | 11.9            | 7.7 | 12.7            | 7.6 | 13.5            | 7.5 |
|                          | 91                | 32.5 | 10.0              | 7.1 | 10.2            | 7.2 | 11.0            | 7.2 | 11.4            | 7.6 | 11.8            | 7.6 | 12.6            | 7.6 | 13.4            | 7.5 |
|                          | 95                | 35.0 | 9.9               | 7.1 | 10.1            | 7.2 | 10.9            | 7.2 | 11.2            | 7.6 | 11.7            | 7.6 | 12.5            | 7.5 | 13.3            | 7.4 |
|                          | 100               | 37.5 | 9.8               | 7.0 | 10.0            | 7.1 | 10.7            | 7.1 | 11.1            | 7.5 | 11.6            | 7.5 | 12.4            | 7.5 | 13.2            | 7.4 |
|                          | 104               | 40.0 | 9.7               | 6.9 | 9.9             | 7.1 | 10.6            | 7.0 | 11.0            | 7.4 | 11.4            | 7.5 | 12.2            | 7.4 | 13.0            | 7.3 |
|                          | 110               | 43.0 | 9.6               | 6.9 | 9.7             | 7.0 | 10.4            | 7.0 | 10.8            | 7.4 | 11.3            | 7.4 | 12.1            | 7.3 | 12.9            | 7.3 |
| 125<br>(14.0)            | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 13.2              | 9.2 | 13.6            | 9.4 | 14.6            | 9.4 | 15.0            | 9.9 | 15.5            | 9.8 | 16.5            | 9.7 | 17.5            | 9.6 |
|                          | 73                | 22.5 | 13.1              | 9.1 | 13.4            | 9.3 | 14.4            | 9.3 | 14.9            | 9.8 | 15.4            | 9.8 | 16.4            | 9.7 | 17.4            | 9.5 |
|                          | 77                | 25.0 | 13.0              | 9.1 | 13.3            | 9.2 | 14.3            | 9.2 | 14.7            | 9.7 | 15.2            | 9.7 | 16.2            | 9.6 | 17.2            | 9.5 |
|                          | 82                | 27.5 | 12.8              | 9.0 | 13.1            | 9.2 | 14.0            | 9.1 | 14.6            | 9.6 | 15.1            | 9.6 | 16.1            | 9.5 | 17.1            | 9.4 |
|                          | 86                | 30.0 | 12.7              | 8.9 | 13.0            | 9.1 | 13.9            | 9.1 | 14.4            | 9.6 | 14.9            | 9.5 | 15.9            | 9.5 | 16.9            | 9.3 |
|                          | 91                | 32.5 | 12.5              | 8.8 | 12.8            | 9.0 | 13.7            | 9.0 | 14.2            | 9.5 | 14.7            | 9.5 | 15.8            | 9.4 | 16.8            | 9.3 |
|                          | 95                | 35.0 | 12.4              | 8.8 | 12.6            | 8.9 | 13.6            | 8.9 | 14.0            | 9.4 | 14.6            | 9.4 | 15.7            | 9.3 | 16.6            | 9.2 |
|                          | 100               | 37.5 | 12.3              | 8.7 | 12.5            | 8.8 | 13.4            | 8.8 | 13.9            | 9.3 | 14.4            | 9.3 | 15.5            | 9.3 | 16.5            | 9.2 |
|                          | 104               | 40.0 | 12.1              | 8.6 | 12.3            | 8.8 | 13.2            | 8.8 | 13.7            | 9.2 | 14.3            | 9.3 | 15.3            | 9.2 | 16.3            | 9.1 |
|                          | 110               | 43.0 | 12.0              | 8.5 | 12.2            | 8.7 | 13.1            | 8.7 | 13.6            | 9.2 | 14.1            | 9.2 | 15.1            | 9.1 | 16.1            | 9.0 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## H1. Cooling capacity with PUHY-RP200, 250YJM/PURY-RP200, 250YJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          |                   |      | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 15<br>(1.7)              | 68                | 20.0 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.3 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 73                | 22.5 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.3 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 77                | 25.0 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.3 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 82                | 27.5 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.1             | 1.2 |
|                          | 86                | 30.0 | 1.6               | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 91                | 32.5 | 1.6               | 1.1 | 1.6             | 1.2 | 1.7             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 95                | 35.0 | 1.5               | 1.1 | 1.6             | 1.1 | 1.7             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 2.0             | 1.1 |
|                          | 100               | 37.5 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.1 |
|                          | 104               | 40.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.1 | 1.9             | 1.1 |
|                          | 110               | 43.0 | 1.4               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.6             | 1.1 | 1.6             | 1.1 | 1.7             | 1.1 | 1.8             | 1.1 |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.5 | 2.2             | 1.6 | 2.3             | 1.5 | 2.4             | 1.6 | 2.5             | 1.6 | 2.6             | 1.6 | 2.8             | 1.6 |
|                          | 73                | 22.5 | 2.1               | 1.5 | 2.2             | 1.6 | 2.3             | 1.5 | 2.4             | 1.6 | 2.5             | 1.6 | 2.6             | 1.6 | 2.8             | 1.6 |
|                          | 77                | 25.0 | 2.1               | 1.5 | 2.2             | 1.6 | 2.3             | 1.5 | 2.4             | 1.6 | 2.4             | 1.6 | 2.6             | 1.6 | 2.7             | 1.5 |
|                          | 82                | 27.5 | 2.1               | 1.5 | 2.1             | 1.5 | 2.3             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.5             | 1.5 | 2.7             | 1.5 |
|                          | 86                | 30.0 | 2.0               | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.6 | 2.3             | 1.5 | 2.5             | 1.5 | 2.6             | 1.5 |
|                          | 91                | 32.5 | 2.0               | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.4             | 1.5 | 2.6             | 1.5 |
|                          | 95                | 35.0 | 2.0               | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.5 | 2.3             | 1.5 | 2.4             | 1.5 | 2.5             | 1.5 |
|                          | 100               | 37.5 | 1.9               | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.5             | 1.5 |
|                          | 104               | 40.0 | 1.9               | 1.4 | 1.9             | 1.4 | 2.1             | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.4             | 1.4 |
|                          | 110               | 43.0 | 1.8               | 1.3 | 1.9             | 1.4 | 2.0             | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.4 | 2.4             | 1.4 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 1.9 | 2.8             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 73                | 22.5 | 2.7               | 1.9 | 2.8             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 77                | 25.0 | 2.7               | 1.9 | 2.8             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 82                | 27.5 | 2.6               | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 86                | 30.0 | 2.6               | 1.8 | 2.7             | 1.9 | 2.8             | 1.8 | 2.9             | 2.0 | 3.0             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 91                | 32.5 | 2.5               | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 95                | 35.0 | 2.5               | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.0             | 1.8 | 3.2             | 1.8 |
|                          | 100               | 37.5 | 2.5               | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 | 2.7             | 1.9 | 2.8             | 1.9 | 3.0             | 1.8 | 3.1             | 1.8 |
|                          | 104               | 40.0 | 2.4               | 1.7 | 2.5             | 1.8 | 2.6             | 1.8 | 2.7             | 1.9 | 2.8             | 1.9 | 2.9             | 1.8 | 3.1             | 1.8 |
|                          | 110               | 43.0 | 2.4               | 1.7 | 2.4             | 1.7 | 2.6             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 | 2.8             | 1.8 | 3.0             | 1.7 |
| 32<br>(3.6)              | 68                | 20.0 | 3.4               | 2.6 | 3.5             | 2.7 | 3.8             | 2.7 | 3.9             | 2.9 | 4.0             | 2.8 | 4.2             | 2.8 | 4.6             | 2.8 |
|                          | 73                | 22.5 | 3.4               | 2.6 | 3.5             | 2.7 | 3.8             | 2.7 | 3.9             | 2.9 | 4.0             | 2.8 | 4.2             | 2.8 | 4.6             | 2.8 |
|                          | 77                | 25.0 | 3.4               | 2.6 | 3.5             | 2.7 | 3.8             | 2.7 | 3.9             | 2.9 | 4.0             | 2.8 | 4.2             | 2.8 | 4.5             | 2.7 |
|                          | 82                | 27.5 | 3.4               | 2.6 | 3.5             | 2.7 | 3.7             | 2.7 | 3.8             | 2.8 | 3.9             | 2.8 | 4.1             | 2.7 | 4.4             | 2.7 |
|                          | 86                | 30.0 | 3.3               | 2.6 | 3.4             | 2.6 | 3.6             | 2.6 | 3.7             | 2.8 | 3.8             | 2.7 | 4.0             | 2.7 | 4.3             | 2.7 |
|                          | 91                | 32.5 | 3.3               | 2.6 | 3.4             | 2.6 | 3.6             | 2.6 | 3.7             | 2.8 | 3.8             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 |
|                          | 95                | 35.0 | 3.2               | 2.5 | 3.3             | 2.6 | 3.5             | 2.6 | 3.6             | 2.7 | 3.7             | 2.7 | 3.9             | 2.7 | 4.1             | 2.6 |
|                          | 100               | 37.5 | 3.2               | 2.5 | 3.2             | 2.5 | 3.4             | 2.5 | 3.5             | 2.7 | 3.6             | 2.7 | 3.8             | 2.6 | 4.0             | 2.6 |
|                          | 104               | 40.0 | 3.1               | 2.5 | 3.2             | 2.5 | 3.4             | 2.5 | 3.5             | 2.7 | 3.6             | 2.7 | 3.7             | 2.6 | 4.0             | 2.6 |
|                          | 110               | 43.0 | 3.0               | 2.4 | 3.1             | 2.5 | 3.3             | 2.5 | 3.3             | 2.6 | 3.5             | 2.6 | 3.6             | 2.6 | 3.9             | 2.5 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.2 | 4.4             | 3.3 | 4.7             | 3.3 | 4.9             | 3.5 | 5.0             | 3.4 | 5.3             | 3.4 | 5.7             | 3.4 |
|                          | 73                | 22.5 | 4.3               | 3.2 | 4.4             | 3.3 | 4.7             | 3.3 | 4.9             | 3.5 | 5.0             | 3.4 | 5.3             | 3.4 | 5.7             | 3.4 |
|                          | 77                | 25.0 | 4.3               | 3.2 | 4.4             | 3.3 | 4.7             | 3.3 | 4.9             | 3.5 | 5.0             | 3.4 | 5.3             | 3.4 | 5.6             | 3.3 |
|                          | 82                | 27.5 | 4.3               | 3.2 | 4.4             | 3.3 | 4.6             | 3.2 | 4.8             | 3.4 | 4.9             | 3.4 | 5.2             | 3.4 | 5.5             | 3.3 |
|                          | 86                | 30.0 | 4.2               | 3.2 | 4.3             | 3.2 | 4.6             | 3.2 | 4.7             | 3.4 | 4.8             | 3.4 | 5.0             | 3.3 | 5.4             | 3.3 |
|                          | 91                | 32.5 | 4.1               | 3.1 | 4.2             | 3.2 | 4.5             | 3.2 | 4.6             | 3.4 | 4.7             | 3.3 | 5.0             | 3.3 | 5.3             | 3.2 |
|                          | 95                | 35.0 | 4.0               | 3.1 | 4.1             | 3.1 | 4.4             | 3.1 | 4.5             | 3.3 | 4.6             | 3.3 | 4.9             | 3.2 | 5.2             | 3.2 |
|                          | 100               | 37.5 | 3.9               | 3.0 | 4.1             | 3.1 | 4.3             | 3.1 | 4.4             | 3.3 | 4.5             | 3.2 | 4.8             | 3.2 | 5.0             | 3.1 |
|                          | 104               | 40.0 | 3.9               | 3.0 | 4.0             | 3.1 | 4.2             | 3.0 | 4.3             | 3.2 | 4.5             | 3.2 | 4.7             | 3.2 | 5.0             | 3.1 |
|                          | 110               | 43.0 | 3.8               | 3.0 | 3.9             | 3.0 | 4.1             | 3.0 | 4.2             | 3.2 | 4.3             | 3.2 | 4.5             | 3.1 | 4.8             | 3.1 |
| 50<br>(5.6)              | 68                | 20.0 | 5.3               | 3.8 | 5.5             | 3.9 | 5.9             | 3.9 | 6.0             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 | 7.1             | 4.0 |
|                          | 73                | 22.5 | 5.3               | 3.8 | 5.5             | 3.9 | 5.9             | 3.9 | 6.0             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 | 7.1             | 4.0 |
|                          | 77                | 25.0 | 5.3               | 3.8 | 5.5             | 3.9 | 5.9             | 3.9 | 6.0             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 | 6.9             | 3.9 |
|                          | 82                | 27.5 | 5.3               | 3.8 | 5.5             | 3.9 | 5.8             | 3.8 | 5.9             | 4.0 | 6.1             | 4.0 | 6.4             | 3.9 | 6.8             | 3.8 |
|                          | 86                | 30.0 | 5.2               | 3.7 | 5.3             | 3.8 | 5.7             | 3.8 | 5.8             | 4.0 | 6.0             | 3.9 | 6.3             | 3.9 | 6.7             | 3.8 |
|                          | 91                | 32.5 | 5.1               | 3.7 | 5.3             | 3.8 | 5.5             | 3.7 | 5.7             | 3.9 | 5.9             | 3.9 | 6.2             | 3.8 | 6.6             | 3.8 |
|                          | 95                | 35.0 | 5.0               | 3.6 | 5.2             | 3.7 | 5.5             | 3.7 | 5.6             | 3.9 | 5.7             | 3.8 | 6.0             | 3.7 | 6.4             | 3.7 |
|                          | 100               | 37.5 | 4.9               | 3.6 | 5.0             | 3.6 | 5.3             | 3.6 | 5.5             | 3.8 | 5.6             | 3.8 | 5.9             | 3.7 | 6.3             | 3.7 |
|                          | 104               | 40.0 | 4.8               | 3.5 | 5.0             | 3.6 | 5.3             | 3.6 | 5.4             | 3.8 | 5.5             | 3.7 | 5.8             | 3.7 | 6.2             | 3.6 |
|                          | 110               | 43.0 | 4.7               | 3.5 | 4.8             | 3.5 | 5.1             | 3.5 | 5.2             | 3.7 | 5.4             | 3.7 | 5.7             | 3.6 | 6.0             | 3.6 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## H1. Cooling capacity with PUHY-RP200, 250YJM/PURY-RP200, 250YJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          |                   |      | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 63<br>(7.1)              | 68                | 20.0 | 6.7               | 5.2 | 7.0             | 5.4 | 7.5             | 5.4 | 7.7             | 5.7 | 7.9             | 5.6 | 8.4             | 5.6 | 9.0             | 5.5 |
|                          | 73                | 22.5 | 6.7               | 5.2 | 7.0             | 5.4 | 7.5             | 5.4 | 7.7             | 5.7 | 7.9             | 5.6 | 8.4             | 5.6 | 9.0             | 5.5 |
|                          | 77                | 25.0 | 6.7               | 5.2 | 7.0             | 5.4 | 7.5             | 5.4 | 7.7             | 5.7 | 7.8             | 5.6 | 8.3             | 5.5 | 8.8             | 5.4 |
|                          | 82                | 27.5 | 6.7               | 5.2 | 6.9             | 5.3 | 7.3             | 5.3 | 7.5             | 5.6 | 7.7             | 5.5 | 8.1             | 5.4 | 8.7             | 5.4 |
|                          | 86                | 30.0 | 6.6               | 5.1 | 6.8             | 5.3 | 7.2             | 5.2 | 7.4             | 5.5 | 7.6             | 5.5 | 8.0             | 5.4 | 8.5             | 5.3 |
|                          | 91                | 32.5 | 6.5               | 5.1 | 6.7             | 5.2 | 7.0             | 5.1 | 7.2             | 5.5 | 7.4             | 5.4 | 7.8             | 5.3 | 8.3             | 5.3 |
|                          | 95                | 35.0 | 6.4               | 5.0 | 6.5             | 5.1 | 6.9             | 5.1 | 7.1             | 5.4 | 7.3             | 5.4 | 7.7             | 5.3 | 8.1             | 5.2 |
|                          | 100               | 37.5 | 6.2               | 4.9 | 6.4             | 5.1 | 6.8             | 5.1 | 6.9             | 5.3 | 7.1             | 5.3 | 7.5             | 5.2 | 8.0             | 5.2 |
|                          | 104               | 40.0 | 6.1               | 4.9 | 6.3             | 5.1 | 6.7             | 5.0 | 6.8             | 5.3 | 7.0             | 5.3 | 7.3             | 5.2 | 7.8             | 5.1 |
|                          | 110               | 43.0 | 6.0               | 4.8 | 6.1             | 5.0 | 6.5             | 4.9 | 6.6             | 5.2 | 6.8             | 5.2 | 7.2             | 5.1 | 7.6             | 5.0 |
| 100<br>(11.2)            | 68                | 20.0 | 10.6              | 7.6 | 11.0            | 7.9 | 11.8            | 7.8 | 12.1            | 8.2 | 12.5            | 8.2 | 13.2            | 8.1 | 14.2            | 8.0 |
|                          | 73                | 22.5 | 10.6              | 7.6 | 11.0            | 7.9 | 11.8            | 7.8 | 12.1            | 8.2 | 12.5            | 8.2 | 13.2            | 8.1 | 14.2            | 8.0 |
|                          | 77                | 25.0 | 10.6              | 7.6 | 11.0            | 7.9 | 11.8            | 7.8 | 12.1            | 8.2 | 12.4            | 8.1 | 13.1            | 8.0 | 13.9            | 7.9 |
|                          | 82                | 27.5 | 10.6              | 7.6 | 10.9            | 7.8 | 11.5            | 7.7 | 11.9            | 8.1 | 12.2            | 8.1 | 12.8            | 7.9 | 13.7            | 7.8 |
|                          | 86                | 30.0 | 10.4              | 7.5 | 10.7            | 7.7 | 11.3            | 7.6 | 11.6            | 8.0 | 11.9            | 7.9 | 12.5            | 7.8 | 13.4            | 7.7 |
|                          | 91                | 32.5 | 10.2              | 7.4 | 10.5            | 7.6 | 11.1            | 7.5 | 11.4            | 7.9 | 11.7            | 7.8 | 12.3            | 7.7 | 13.1            | 7.6 |
|                          | 95                | 35.0 | 10.0              | 7.3 | 10.3            | 7.5 | 10.9            | 7.4 | 11.2            | 7.8 | 11.5            | 7.8 | 12.1            | 7.6 | 12.8            | 7.5 |
|                          | 100               | 37.5 | 9.8               | 7.2 | 10.1            | 7.4 | 10.7            | 7.3 | 10.9            | 7.7 | 11.3            | 7.7 | 11.9            | 7.5 | 12.5            | 7.4 |
|                          | 104               | 40.0 | 9.6               | 7.1 | 9.9             | 7.3 | 10.5            | 7.2 | 10.8            | 7.6 | 11.1            | 7.6 | 11.6            | 7.4 | 12.3            | 7.3 |
|                          | 110               | 43.0 | 9.4               | 7.0 | 9.7             | 7.2 | 10.2            | 7.1 | 10.4            | 7.5 | 10.8            | 7.5 | 11.3            | 7.3 | 12.0            | 7.2 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## H2. Cooling capacity with PUHY-RP300-400Y(S)JM/PURY-RP300YJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 15<br>(1.7)              | 68                | 20.0 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.3 | 2.0             | 1.3 | 2.1             | 1.3 | 2.2             | 1.2 |
|                          | 73                | 22.5 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.3 | 1.9             | 1.3 | 2.0             | 1.2 | 2.2             | 1.2 |
|                          | 77                | 25.0 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.3 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 82                | 27.5 | 1.6               | 1.2 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 86                | 30.0 | 1.6               | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 91                | 32.5 | 1.5               | 1.1 | 1.6             | 1.1 | 1.7             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 95                | 35.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.7             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 100               | 37.5 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.1 |
|                          | 104               | 40.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.1 | 1.9             | 1.1 |
|                          | 110               | 43.0 | 1.4               | 1.1 | 1.4             | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.6             | 1.1 | 1.7             | 1.1 | 1.8             | 1.1 |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.5 | 2.2             | 1.6 | 2.4             | 1.6 | 2.5             | 1.7 | 2.5             | 1.6 | 2.7             | 1.6 | 2.9             | 1.6 |
|                          | 73                | 22.5 | 2.1               | 1.5 | 2.2             | 1.6 | 2.3             | 1.5 | 2.4             | 1.6 | 2.5             | 1.6 | 2.6             | 1.6 | 2.8             | 1.6 |
|                          | 77                | 25.0 | 2.1               | 1.5 | 2.2             | 1.6 | 2.3             | 1.5 | 2.4             | 1.6 | 2.4             | 1.6 | 2.6             | 1.6 | 2.8             | 1.6 |
|                          | 82                | 27.5 | 2.1               | 1.5 | 2.1             | 1.5 | 2.3             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.5             | 1.5 | 2.7             | 1.5 |
|                          | 86                | 30.0 | 2.0               | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.5             | 1.5 | 2.6             | 1.5 |
|                          | 91                | 32.5 | 2.0               | 1.4 | 2.0             | 1.4 | 2.2             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.4             | 1.5 | 2.6             | 1.5 |
|                          | 95                | 35.0 | 2.0               | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.5 | 2.3             | 1.5 | 2.4             | 1.5 | 2.5             | 1.5 |
|                          | 100               | 37.5 | 1.9               | 1.4 | 1.9             | 1.4 | 2.1             | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.4             | 1.5 | 2.5             | 1.5 |
|                          | 104               | 40.0 | 1.9               | 1.4 | 1.9             | 1.4 | 2.0             | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.4             | 1.4 |
|                          | 110               | 43.0 | 1.8               | 1.3 | 1.8             | 1.4 | 2.0             | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.4 | 2.4             | 1.4 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 1.9 | 2.8             | 1.9 | 3.0             | 1.9 | 3.1             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 | 3.6             | 2.0 |
|                          | 73                | 22.5 | 2.7               | 1.9 | 2.8             | 1.9 | 3.0             | 1.9 | 3.1             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 | 3.6             | 2.0 |
|                          | 77                | 25.0 | 2.7               | 1.9 | 2.7             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 82                | 27.5 | 2.6               | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 86                | 30.0 | 2.6               | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 | 2.9             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 91                | 32.5 | 2.5               | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 | 2.9             | 2.0 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 95                | 35.0 | 2.5               | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.2             | 1.8 |
|                          | 100               | 37.5 | 2.5               | 1.8 | 2.5             | 1.8 | 2.6             | 1.8 | 2.7             | 1.9 | 2.8             | 1.9 | 3.0             | 1.8 | 3.2             | 1.8 |
|                          | 104               | 40.0 | 2.4               | 1.7 | 2.4             | 1.7 | 2.6             | 1.8 | 2.7             | 1.9 | 2.8             | 1.9 | 2.9             | 1.8 | 3.1             | 1.8 |
|                          | 110               | 43.0 | 2.4               | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 | 2.6             | 1.8 | 2.7             | 1.8 | 2.8             | 1.8 | 3.0             | 1.7 |
| 32<br>(3.6)              | 68                | 20.0 | 3.5               | 2.7 | 3.6             | 2.7 | 3.9             | 2.7 | 4.0             | 2.9 | 4.2             | 2.9 | 4.4             | 2.9 | 4.7             | 2.8 |
|                          | 73                | 22.5 | 3.5               | 2.7 | 3.6             | 2.7 | 3.8             | 2.7 | 4.0             | 2.9 | 4.1             | 2.9 | 4.3             | 2.8 | 4.6             | 2.8 |
|                          | 77                | 25.0 | 3.4               | 2.6 | 3.5             | 2.7 | 3.8             | 2.7 | 3.9             | 2.9 | 4.0             | 2.8 | 4.2             | 2.8 | 4.5             | 2.7 |
|                          | 82                | 27.5 | 3.4               | 2.6 | 3.5             | 2.7 | 3.7             | 2.7 | 3.8             | 2.8 | 3.9             | 2.8 | 4.2             | 2.8 | 4.4             | 2.7 |
|                          | 86                | 30.0 | 3.3               | 2.6 | 3.4             | 2.6 | 3.6             | 2.6 | 3.7             | 2.8 | 3.9             | 2.8 | 4.1             | 2.7 | 4.3             | 2.7 |
|                          | 91                | 32.5 | 3.3               | 2.6 | 3.3             | 2.6 | 3.5             | 2.6 | 3.7             | 2.8 | 3.8             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 |
|                          | 95                | 35.0 | 3.2               | 2.5 | 3.3             | 2.6 | 3.5             | 2.6 | 3.6             | 2.7 | 3.7             | 2.7 | 3.9             | 2.7 | 4.2             | 2.6 |
|                          | 100               | 37.5 | 3.2               | 2.5 | 3.2             | 2.5 | 3.4             | 2.5 | 3.5             | 2.7 | 3.6             | 2.7 | 3.9             | 2.7 | 4.1             | 2.6 |
|                          | 104               | 40.0 | 3.1               | 2.5 | 3.1             | 2.5 | 3.3             | 2.5 | 3.4             | 2.6 | 3.5             | 2.6 | 3.8             | 2.6 | 4.0             | 2.6 |
|                          | 110               | 43.0 | 3.0               | 2.4 | 3.0             | 2.5 | 3.2             | 2.4 | 3.3             | 2.6 | 3.4             | 2.6 | 3.7             | 2.6 | 3.9             | 2.5 |
| 40<br>(4.5)              | 68                | 20.0 | 4.4               | 3.3 | 4.5             | 3.3 | 4.9             | 3.4 | 5.0             | 3.5 | 5.2             | 3.5 | 5.5             | 3.5 | 5.9             | 3.4 |
|                          | 73                | 22.5 | 4.3               | 3.2 | 4.5             | 3.3 | 4.8             | 3.3 | 5.0             | 3.5 | 5.1             | 3.5 | 5.4             | 3.4 | 5.7             | 3.4 |
|                          | 77                | 25.0 | 4.3               | 3.2 | 4.4             | 3.3 | 4.7             | 3.3 | 4.9             | 3.5 | 5.0             | 3.4 | 5.3             | 3.4 | 5.6             | 3.3 |
|                          | 82                | 27.5 | 4.2               | 3.2 | 4.3             | 3.2 | 4.6             | 3.2 | 4.8             | 3.4 | 4.9             | 3.4 | 5.2             | 3.4 | 5.5             | 3.3 |
|                          | 86                | 30.0 | 4.1               | 3.1 | 4.2             | 3.2 | 4.5             | 3.2 | 4.7             | 3.4 | 4.8             | 3.4 | 5.1             | 3.3 | 5.4             | 3.3 |
|                          | 91                | 32.5 | 4.1               | 3.1 | 4.2             | 3.2 | 4.4             | 3.1 | 4.6             | 3.4 | 4.7             | 3.3 | 5.0             | 3.3 | 5.3             | 3.2 |
|                          | 95                | 35.0 | 4.0               | 3.1 | 4.1             | 3.1 | 4.3             | 3.1 | 4.5             | 3.3 | 4.6             | 3.3 | 4.9             | 3.2 | 5.2             | 3.2 |
|                          | 100               | 37.5 | 4.0               | 3.1 | 4.0             | 3.1 | 4.3             | 3.1 | 4.4             | 3.3 | 4.5             | 3.2 | 4.8             | 3.2 | 5.1             | 3.2 |
|                          | 104               | 40.0 | 3.9               | 3.0 | 3.9             | 3.0 | 4.2             | 3.0 | 4.3             | 3.2 | 4.4             | 3.2 | 4.7             | 3.2 | 5.0             | 3.1 |
|                          | 110               | 43.0 | 3.8               | 3.0 | 3.8             | 3.0 | 4.1             | 3.0 | 4.2             | 3.2 | 4.3             | 3.2 | 4.6             | 3.1 | 4.8             | 3.1 |
| 50<br>(5.6)              | 68                | 20.0 | 5.4               | 3.8 | 5.6             | 3.9 | 6.0             | 3.9 | 6.3             | 4.2 | 6.5             | 4.2 | 6.9             | 4.1 | 7.3             | 4.0 |
|                          | 73                | 22.5 | 5.4               | 3.8 | 5.6             | 3.9 | 6.0             | 3.9 | 6.2             | 4.1 | 6.4             | 4.1 | 6.7             | 4.0 | 7.1             | 4.0 |
|                          | 77                | 25.0 | 5.3               | 3.8 | 5.5             | 3.9 | 5.9             | 3.9 | 6.0             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 | 7.0             | 3.9 |
|                          | 82                | 27.5 | 5.2               | 3.7 | 5.4             | 3.8 | 5.7             | 3.8 | 5.9             | 4.0 | 6.1             | 4.0 | 6.5             | 3.9 | 6.9             | 3.9 |
|                          | 86                | 30.0 | 5.2               | 3.7 | 5.3             | 3.8 | 5.6             | 3.7 | 5.8             | 4.0 | 6.0             | 3.9 | 6.4             | 3.9 | 6.7             | 3.8 |
|                          | 91                | 32.5 | 5.1               | 3.7 | 5.2             | 3.7 | 5.5             | 3.7 | 5.7             | 3.9 | 5.9             | 3.9 | 6.2             | 3.8 | 6.6             | 3.8 |
|                          | 95                | 35.0 | 5.0               | 3.6 | 5.1             | 3.7 | 5.4             | 3.6 | 5.6             | 3.9 | 5.8             | 3.9 | 6.1             | 3.8 | 6.5             | 3.7 |
|                          | 100               | 37.5 | 4.9               | 3.6 | 5.0             | 3.6 | 5.3             | 3.6 | 5.5             | 3.8 | 5.7             | 3.8 | 6.0             | 3.7 | 6.3             | 3.7 |
|                          | 104               | 40.0 | 4.8               | 3.5 | 4.8             | 3.5 | 5.2             | 3.6 | 5.3             | 3.7 | 5.5             | 3.7 | 5.9             | 3.7 | 6.2             | 3.6 |
|                          | 110               | 43.0 | 4.7               | 3.5 | 4.7             | 3.5 | 5.0             | 3.5 | 5.2             | 3.7 | 5.3             | 3.6 | 5.7             | 3.6 | 6.0             | 3.6 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## H2. Cooling capacity with PUHY-RP300-400Y(S)JM/PURY-RP300YJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          |                   |      | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 63<br>(7.1)              | 68                | 20.0 | 6.9               | 5.3 | 7.1             | 5.4 | 7.7             | 5.4 | 8.0             | 5.8 | 8.2             | 5.8 | 8.7             | 5.7 | 9.2             | 5.6 |
|                          | 73                | 22.5 | 6.9               | 5.3 | 7.1             | 5.4 | 7.6             | 5.4 | 7.8             | 5.7 | 8.1             | 5.7 | 8.5             | 5.6 | 9.1             | 5.5 |
|                          | 77                | 25.0 | 6.8               | 5.2 | 7.0             | 5.4 | 7.4             | 5.3 | 7.7             | 5.7 | 7.9             | 5.6 | 8.4             | 5.6 | 8.9             | 5.5 |
|                          | 82                | 27.5 | 6.6               | 5.1 | 6.8             | 5.3 | 7.3             | 5.3 | 7.5             | 5.6 | 7.8             | 5.6 | 8.2             | 5.5 | 8.7             | 5.4 |
|                          | 86                | 30.0 | 6.5               | 5.1 | 6.7             | 5.2 | 7.1             | 5.2 | 7.4             | 5.5 | 7.6             | 5.5 | 8.1             | 5.4 | 8.5             | 5.3 |
|                          | 91                | 32.5 | 6.4               | 5.0 | 6.6             | 5.2 | 7.0             | 5.1 | 7.2             | 5.5 | 7.5             | 5.5 | 7.9             | 5.4 | 8.4             | 5.3 |
|                          | 95                | 35.0 | 6.3               | 5.0 | 6.4             | 5.1 | 6.8             | 5.1 | 7.1             | 5.4 | 7.3             | 5.4 | 7.7             | 5.3 | 8.2             | 5.2 |
|                          | 100               | 37.5 | 6.2               | 4.9 | 6.3             | 5.1 | 6.7             | 5.0 | 6.9             | 5.3 | 7.2             | 5.3 | 7.6             | 5.3 | 8.0             | 5.2 |
|                          | 104               | 40.0 | 6.1               | 4.9 | 6.1             | 5.0 | 6.6             | 5.0 | 6.8             | 5.3 | 7.0             | 5.3 | 7.4             | 5.2 | 7.8             | 5.1 |
|                          | 110               | 43.0 | 6.0               | 4.8 | 6.0             | 4.9 | 6.4             | 4.9 | 6.6             | 5.2 | 6.8             | 5.2 | 7.2             | 5.1 | 7.6             | 5.0 |
| 100<br>(11.2)            | 68                | 20.0 | 10.9              | 7.8 | 11.3            | 8.0 | 12.1            | 8.0 | 12.5            | 8.4 | 12.9            | 8.4 | 13.7            | 8.3 | 14.6            | 8.2 |
|                          | 73                | 22.5 | 10.8              | 7.7 | 11.2            | 8.0 | 11.9            | 7.9 | 12.3            | 8.3 | 12.7            | 8.3 | 13.5            | 8.2 | 14.3            | 8.0 |
|                          | 77                | 25.0 | 10.7              | 7.7 | 11.0            | 7.9 | 11.7            | 7.8 | 12.1            | 8.2 | 12.5            | 8.2 | 13.2            | 8.1 | 14.0            | 7.9 |
|                          | 82                | 27.5 | 10.5              | 7.6 | 10.8            | 7.8 | 11.5            | 7.7 | 11.9            | 8.1 | 12.2            | 8.1 | 13.0            | 8.0 | 13.7            | 7.8 |
|                          | 86                | 30.0 | 10.3              | 7.5 | 10.5            | 7.6 | 11.3            | 7.6 | 11.6            | 8.0 | 12.0            | 8.0 | 12.8            | 7.9 | 13.4            | 7.7 |
|                          | 91                | 32.5 | 10.1              | 7.4 | 10.4            | 7.6 | 11.0            | 7.5 | 11.4            | 7.9 | 11.8            | 7.9 | 12.4            | 7.7 | 13.2            | 7.6 |
|                          | 95                | 35.0 | 10.0              | 7.3 | 10.1            | 7.4 | 10.8            | 7.4 | 11.2            | 7.8 | 11.5            | 7.8 | 12.2            | 7.7 | 12.9            | 7.5 |
|                          | 100               | 37.5 | 9.9               | 7.3 | 9.9             | 7.3 | 10.6            | 7.3 | 10.9            | 7.7 | 11.3            | 7.7 | 12.0            | 7.6 | 12.7            | 7.5 |
|                          | 104               | 40.0 | 9.7               | 7.2 | 9.7             | 7.2 | 10.4            | 7.2 | 10.7            | 7.6 | 11.0            | 7.5 | 11.7            | 7.5 | 12.4            | 7.3 |
|                          | 110               | 43.0 | 9.4               | 7.0 | 9.4             | 7.1 | 10.1            | 7.1 | 10.4            | 7.5 | 10.7            | 7.4 | 11.4            | 7.3 | 12.0            | 7.2 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## H3. Cooling capacity with PUHY-RP450-650YSJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 15<br>(1.7)              | 68                | 20.0 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 73                | 22.5 | 1.6               | 1.2 | 1.6             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 77                | 25.0 | 1.6               | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 82                | 27.5 | 1.6               | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 86                | 30.0 | 1.5               | 1.1 | 1.6             | 1.2 | 1.7             | 1.1 | 1.8             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.1             | 1.2 |
|                          | 91                | 32.5 | 1.5               | 1.1 | 1.6             | 1.1 | 1.7             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 95                | 35.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.7             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 100               | 37.5 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 104               | 40.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.7             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 110               | 43.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 2.0             | 1.2 |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.5 | 2.1             | 1.5 | 2.3             | 1.5 | 2.4             | 1.6 | 2.5             | 1.6 | 2.6             | 1.6 | 2.8             | 1.6 |
|                          | 73                | 22.5 | 2.1               | 1.5 | 2.1             | 1.5 | 2.3             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.6             | 1.6 | 2.7             | 1.5 |
|                          | 77                | 25.0 | 2.0               | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.6             | 1.6 | 2.7             | 1.5 |
|                          | 82                | 27.5 | 2.0               | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.5             | 1.5 | 2.6             | 1.5 |
|                          | 86                | 30.0 | 2.0               | 1.4 | 2.0             | 1.4 | 2.2             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.5             | 1.5 | 2.7             | 1.5 |
|                          | 91                | 32.5 | 2.0               | 1.4 | 2.0             | 1.4 | 2.2             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.5             | 1.5 | 2.6             | 1.5 |
|                          | 95                | 35.0 | 2.0               | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.5 | 2.3             | 1.5 | 2.5             | 1.5 | 2.6             | 1.5 |
|                          | 100               | 37.5 | 1.9               | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.5 | 2.3             | 1.5 | 2.4             | 1.5 | 2.6             | 1.5 |
|                          | 104               | 40.0 | 1.9               | 1.4 | 1.9             | 1.4 | 2.1             | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.4             | 1.5 | 2.6             | 1.5 |
|                          | 110               | 43.0 | 1.9               | 1.4 | 1.9             | 1.4 | 2.1             | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.4             | 1.5 | 2.6             | 1.5 |
| 25<br>(2.8)              | 68                | 20.0 | 2.6               | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 73                | 22.5 | 2.6               | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 77                | 25.0 | 2.6               | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 2.9             | 2.0 | 3.1             | 2.0 | 3.2             | 1.9 | 3.5             | 1.9 |
|                          | 82                | 27.5 | 2.6               | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 | 2.9             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 86                | 30.0 | 2.5               | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 | 2.9             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 91                | 32.5 | 2.5               | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 3.0             | 1.9 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 95                | 35.0 | 2.5               | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 100               | 37.5 | 2.5               | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 104               | 40.0 | 2.4               | 1.7 | 2.5             | 1.8 | 2.7             | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 110               | 43.0 | 2.4               | 1.7 | 2.5             | 1.8 | 2.6             | 1.8 | 2.7             | 1.9 | 2.8             | 1.9 | 3.0             | 1.8 | 3.2             | 1.8 |
| 32<br>(3.6)              | 68                | 20.0 | 3.4               | 2.6 | 3.5             | 2.7 | 3.7             | 2.7 | 3.9             | 2.9 | 4.0             | 2.8 | 4.2             | 2.8 | 4.5             | 2.7 |
|                          | 73                | 22.5 | 3.4               | 2.6 | 3.5             | 2.7 | 3.7             | 2.7 | 3.8             | 2.8 | 4.0             | 2.8 | 4.2             | 2.8 | 4.5             | 2.7 |
|                          | 77                | 25.0 | 3.3               | 2.6 | 3.4             | 2.6 | 3.7             | 2.7 | 3.8             | 2.8 | 3.9             | 2.8 | 4.2             | 2.8 | 4.4             | 2.7 |
|                          | 82                | 27.5 | 3.3               | 2.6 | 3.4             | 2.6 | 3.6             | 2.6 | 3.7             | 2.8 | 3.9             | 2.8 | 4.1             | 2.7 | 4.3             | 2.7 |
|                          | 86                | 30.0 | 3.3               | 2.6 | 3.3             | 2.6 | 3.6             | 2.6 | 3.7             | 2.8 | 3.9             | 2.8 | 4.1             | 2.7 | 4.3             | 2.7 |
|                          | 91                | 32.5 | 3.2               | 2.5 | 3.3             | 2.6 | 3.5             | 2.6 | 3.6             | 2.7 | 3.8             | 2.7 | 4.1             | 2.7 | 4.3             | 2.7 |
|                          | 95                | 35.0 | 3.2               | 2.5 | 3.3             | 2.6 | 3.5             | 2.6 | 3.6             | 2.7 | 3.7             | 2.7 | 4.0             | 2.7 | 4.3             | 2.7 |
|                          | 100               | 37.5 | 3.2               | 2.5 | 3.2             | 2.5 | 3.5             | 2.6 | 3.5             | 2.7 | 3.7             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 |
|                          | 104               | 40.0 | 3.1               | 2.5 | 3.2             | 2.5 | 3.4             | 2.5 | 3.5             | 2.7 | 3.7             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 |
|                          | 110               | 43.0 | 3.1               | 2.5 | 3.2             | 2.5 | 3.4             | 2.5 | 3.5             | 2.7 | 3.6             | 2.7 | 3.9             | 2.7 | 4.2             | 2.6 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.2 | 4.4             | 3.3 | 4.7             | 3.3 | 4.8             | 3.4 | 5.0             | 3.4 | 5.3             | 3.4 | 5.7             | 3.4 |
|                          | 73                | 22.5 | 4.2               | 3.2 | 4.3             | 3.2 | 4.6             | 3.2 | 4.8             | 3.4 | 5.0             | 3.4 | 5.3             | 3.4 | 5.6             | 3.3 |
|                          | 77                | 25.0 | 4.2               | 3.2 | 4.3             | 3.2 | 4.6             | 3.2 | 4.7             | 3.4 | 4.9             | 3.4 | 5.2             | 3.4 | 5.6             | 3.3 |
|                          | 82                | 27.5 | 4.1               | 3.1 | 4.2             | 3.2 | 4.5             | 3.2 | 4.7             | 3.4 | 4.9             | 3.4 | 5.2             | 3.4 | 5.4             | 3.3 |
|                          | 86                | 30.0 | 4.1               | 3.1 | 4.2             | 3.2 | 4.5             | 3.2 | 4.6             | 3.4 | 4.8             | 3.4 | 5.1             | 3.3 | 5.4             | 3.3 |
|                          | 91                | 32.5 | 4.1               | 3.1 | 4.1             | 3.1 | 4.4             | 3.1 | 4.5             | 3.3 | 4.8             | 3.4 | 5.1             | 3.3 | 5.4             | 3.3 |
|                          | 95                | 35.0 | 4.0               | 3.1 | 4.1             | 3.1 | 4.4             | 3.1 | 4.5             | 3.3 | 4.7             | 3.3 | 5.0             | 3.3 | 5.4             | 3.3 |
|                          | 100               | 37.5 | 4.0               | 3.1 | 4.0             | 3.1 | 4.3             | 3.1 | 4.4             | 3.3 | 4.7             | 3.3 | 5.0             | 3.3 | 5.3             | 3.2 |
|                          | 104               | 40.0 | 3.9               | 3.0 | 4.0             | 3.1 | 4.3             | 3.1 | 4.4             | 3.3 | 4.6             | 3.3 | 5.0             | 3.3 | 5.3             | 3.2 |
|                          | 110               | 43.0 | 3.9               | 3.0 | 3.9             | 3.0 | 4.2             | 3.0 | 4.3             | 3.2 | 4.5             | 3.2 | 4.9             | 3.2 | 5.2             | 3.2 |
| 50<br>(5.6)              | 68                | 20.0 | 5.3               | 3.8 | 5.5             | 3.9 | 5.8             | 3.8 | 6.0             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 | 7.1             | 4.0 |
|                          | 73                | 22.5 | 5.3               | 3.8 | 5.4             | 3.8 | 5.8             | 3.8 | 5.9             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 | 7.0             | 3.9 |
|                          | 77                | 25.0 | 5.2               | 3.7 | 5.3             | 3.8 | 5.7             | 3.8 | 5.9             | 4.0 | 6.1             | 4.0 | 6.5             | 3.9 | 6.9             | 3.9 |
|                          | 82                | 27.5 | 5.2               | 3.7 | 5.3             | 3.8 | 5.7             | 3.8 | 5.8             | 4.0 | 6.0             | 3.9 | 6.4             | 3.9 | 6.7             | 3.8 |
|                          | 86                | 30.0 | 5.1               | 3.7 | 5.2             | 3.7 | 5.6             | 3.7 | 5.8             | 4.0 | 6.0             | 3.9 | 6.4             | 3.9 | 6.7             | 3.8 |
|                          | 91                | 32.5 | 5.0               | 3.6 | 5.2             | 3.7 | 5.5             | 3.7 | 5.7             | 3.9 | 5.9             | 3.9 | 6.3             | 3.9 | 6.7             | 3.8 |
|                          | 95                | 35.0 | 5.0               | 3.6 | 5.1             | 3.7 | 5.5             | 3.7 | 5.6             | 3.9 | 5.8             | 3.9 | 6.3             | 3.9 | 6.7             | 3.8 |
|                          | 100               | 37.5 | 4.9               | 3.6 | 5.0             | 3.6 | 5.4             | 3.6 | 5.5             | 3.8 | 5.8             | 3.9 | 6.2             | 3.8 | 6.6             | 3.8 |
|                          | 104               | 40.0 | 4.8               | 3.5 | 5.0             | 3.6 | 5.3             | 3.6 | 5.4             | 3.8 | 5.7             | 3.8 | 6.2             | 3.8 | 6.6             | 3.8 |
|                          | 110               | 43.0 | 4.8               | 3.5 | 4.9             | 3.6 | 5.3             | 3.6 | 5.4             | 3.8 | 5.7             | 3.8 | 6.0             | 3.7 | 6.5             | 3.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## H3. Cooling capacity with PUHY-RP450-650YSJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          |                   |      | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 63<br>(7.1)              | 68                | 20.0 | 6.7               | 5.2 | 6.9             | 5.3 | 7.4             | 5.3 | 7.6             | 5.6 | 7.9             | 5.6 | 8.4             | 5.6 | 8.9             | 5.5 |
|                          | 73                | 22.5 | 6.7               | 5.2 | 6.9             | 5.3 | 7.3             | 5.3 | 7.5             | 5.6 | 7.8             | 5.6 | 8.3             | 5.5 | 8.8             | 5.4 |
|                          | 77                | 25.0 | 6.6               | 5.1 | 6.8             | 5.3 | 7.2             | 5.2 | 7.5             | 5.6 | 7.7             | 5.5 | 8.2             | 5.5 | 8.8             | 5.4 |
|                          | 82                | 27.5 | 6.5               | 5.1 | 6.7             | 5.2 | 7.2             | 5.2 | 7.4             | 5.5 | 7.7             | 5.5 | 8.2             | 5.5 | 8.5             | 5.3 |
|                          | 86                | 30.0 | 6.5               | 5.1 | 6.6             | 5.2 | 7.1             | 5.2 | 7.3             | 5.5 | 7.6             | 5.5 | 8.1             | 5.4 | 8.5             | 5.3 |
|                          | 91                | 32.5 | 6.4               | 5.0 | 6.5             | 5.1 | 7.0             | 5.1 | 7.2             | 5.5 | 7.5             | 5.5 | 8.0             | 5.4 | 8.5             | 5.3 |
|                          | 95                | 35.0 | 6.3               | 5.0 | 6.4             | 5.1 | 6.9             | 5.1 | 7.1             | 5.4 | 7.4             | 5.4 | 8.0             | 5.4 | 8.4             | 5.3 |
|                          | 100               | 37.5 | 6.2               | 4.9 | 6.4             | 5.1 | 6.8             | 5.1 | 7.0             | 5.4 | 7.3             | 5.4 | 7.8             | 5.3 | 8.4             | 5.3 |
|                          | 104               | 40.0 | 6.1               | 4.9 | 6.3             | 5.1 | 6.8             | 5.1 | 6.9             | 5.3 | 7.2             | 5.3 | 7.8             | 5.3 | 8.3             | 5.3 |
|                          | 110               | 43.0 | 6.1               | 4.9 | 6.2             | 5.0 | 6.7             | 5.0 | 6.8             | 5.3 | 7.2             | 5.3 | 7.7             | 5.3 | 8.2             | 5.2 |
| 100<br>(11.2)            | 68                | 20.0 | 10.6              | 7.6 | 10.9            | 7.8 | 11.6            | 7.7 | 12.0            | 8.2 | 12.5            | 8.2 | 13.2            | 8.1 | 14.1            | 8.0 |
|                          | 73                | 22.5 | 10.5              | 7.6 | 10.8            | 7.8 | 11.5            | 7.7 | 11.9            | 8.1 | 12.3            | 8.1 | 13.2            | 8.1 | 13.9            | 7.9 |
|                          | 77                | 25.0 | 10.4              | 7.5 | 10.7            | 7.7 | 11.4            | 7.6 | 11.8            | 8.1 | 12.2            | 8.1 | 13.0            | 8.0 | 13.8            | 7.9 |
|                          | 82                | 27.5 | 10.3              | 7.5 | 10.5            | 7.6 | 11.3            | 7.6 | 11.6            | 8.0 | 12.1            | 8.0 | 12.9            | 7.9 | 13.4            | 7.7 |
|                          | 86                | 30.0 | 10.2              | 7.4 | 10.4            | 7.6 | 11.2            | 7.6 | 11.5            | 8.0 | 12.0            | 8.0 | 12.8            | 7.9 | 13.4            | 7.7 |
|                          | 91                | 32.5 | 10.1              | 7.4 | 10.3            | 7.5 | 11.0            | 7.5 | 11.3            | 7.9 | 11.9            | 7.9 | 12.7            | 7.9 | 13.4            | 7.7 |
|                          | 95                | 35.0 | 10.0              | 7.3 | 10.1            | 7.4 | 10.9            | 7.4 | 11.2            | 7.8 | 11.6            | 7.8 | 12.5            | 7.8 | 13.3            | 7.7 |
|                          | 100               | 37.5 | 9.9               | 7.3 | 10.0            | 7.4 | 10.8            | 7.4 | 11.0            | 7.7 | 11.6            | 7.8 | 12.4            | 7.7 | 13.2            | 7.6 |
|                          | 104               | 40.0 | 9.7               | 7.2 | 9.9             | 7.3 | 10.7            | 7.3 | 10.9            | 7.7 | 11.4            | 7.7 | 12.3            | 7.7 | 13.1            | 7.6 |
|                          | 110               | 43.0 | 9.6               | 7.1 | 9.8             | 7.3 | 10.5            | 7.2 | 10.8            | 7.6 | 11.3            | 7.7 | 12.1            | 7.6 | 13.0            | 7.6 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## H4. Cooling capacity with PUHY-RP700-800YSJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 15<br>(1.7)              | 68                | 20.0 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.3 | 2.0             | 1.3 | 2.1             | 1.3 | 2.2             | 1.2 |
|                          | 73                | 22.5 | 1.6               | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.3 | 1.9             | 1.3 | 2.0             | 1.2 | 2.2             | 1.2 |
|                          | 77                | 25.0 | 1.6               | 1.1 | 1.6             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 82                | 27.5 | 1.6               | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 86                | 30.0 | 1.5               | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.1             | 1.2 |
|                          | 91                | 32.5 | 1.5               | 1.1 | 1.6             | 1.1 | 1.7             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 95                | 35.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 100               | 37.5 | 1.4               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 2.0             | 1.1 |
|                          | 104               | 40.0 | 1.4               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.1 | 1.9             | 1.1 |
|                          | 110               | 43.0 | 1.4               | 1.1 | 1.4             | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.6             | 1.1 | 1.8             | 1.1 | 1.9             | 1.1 |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.5 | 2.2             | 1.6 | 2.4             | 1.6 | 2.4             | 1.6 | 2.5             | 1.6 | 2.7             | 1.6 | 2.9             | 1.6 |
|                          | 73                | 22.5 | 2.1               | 1.5 | 2.2             | 1.6 | 2.3             | 1.5 | 2.4             | 1.6 | 2.5             | 1.6 | 2.7             | 1.6 | 2.8             | 1.6 |
|                          | 77                | 25.0 | 2.1               | 1.5 | 2.1             | 1.5 | 2.3             | 1.5 | 2.4             | 1.6 | 2.4             | 1.6 | 2.6             | 1.6 | 2.8             | 1.6 |
|                          | 82                | 27.5 | 2.0               | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.6             | 1.6 | 2.7             | 1.5 |
|                          | 86                | 30.0 | 2.0               | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.5             | 1.5 | 2.7             | 1.5 |
|                          | 91                | 32.5 | 1.9               | 1.4 | 2.0             | 1.4 | 2.2             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.5             | 1.5 | 2.6             | 1.5 |
|                          | 95                | 35.0 | 1.9               | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.5 | 2.3             | 1.5 | 2.4             | 1.5 | 2.6             | 1.5 |
|                          | 100               | 37.5 | 1.9               | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.5 | 2.2             | 1.5 | 2.4             | 1.5 | 2.5             | 1.5 |
|                          | 104               | 40.0 | 1.8               | 1.3 | 1.9             | 1.4 | 2.0             | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.5             | 1.5 |
|                          | 110               | 43.0 | 1.8               | 1.3 | 1.8             | 1.4 | 2.0             | 1.4 | 2.1             | 1.5 | 2.1             | 1.4 | 2.3             | 1.5 | 2.4             | 1.4 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 1.9 | 2.8             | 1.9 | 3.0             | 1.9 | 3.1             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 | 3.7             | 2.0 |
|                          | 73                | 22.5 | 2.7               | 1.9 | 2.8             | 1.9 | 3.0             | 1.9 | 3.1             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 | 3.6             | 2.0 |
|                          | 77                | 25.0 | 2.6               | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 82                | 27.5 | 2.6               | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 86                | 30.0 | 2.5               | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 | 2.9             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 91                | 32.5 | 2.5               | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 95                | 35.0 | 2.4               | 1.7 | 2.5             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 100               | 37.5 | 2.4               | 1.7 | 2.5             | 1.8 | 2.6             | 1.8 | 2.7             | 1.9 | 2.8             | 1.9 | 3.0             | 1.8 | 3.2             | 1.8 |
|                          | 104               | 40.0 | 2.4               | 1.7 | 2.4             | 1.7 | 2.6             | 1.8 | 2.7             | 1.9 | 2.8             | 1.9 | 3.0             | 1.8 | 3.2             | 1.8 |
|                          | 110               | 43.0 | 2.3               | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 | 2.6             | 1.8 | 2.7             | 1.8 | 2.9             | 1.8 | 3.1             | 1.8 |
| 32<br>(3.6)              | 68                | 20.0 | 3.5               | 2.7 | 3.6             | 2.7 | 3.9             | 2.7 | 4.0             | 2.9 | 4.1             | 2.9 | 4.4             | 2.9 | 4.7             | 2.8 |
|                          | 73                | 22.5 | 3.4               | 2.6 | 3.5             | 2.7 | 3.8             | 2.7 | 3.9             | 2.9 | 4.1             | 2.9 | 4.4             | 2.9 | 4.6             | 2.8 |
|                          | 77                | 25.0 | 3.4               | 2.6 | 3.5             | 2.7 | 3.7             | 2.7 | 3.9             | 2.9 | 4.0             | 2.8 | 4.2             | 2.8 | 4.5             | 2.7 |
|                          | 82                | 27.5 | 3.3               | 2.6 | 3.4             | 2.6 | 3.7             | 2.7 | 3.8             | 2.8 | 3.9             | 2.8 | 4.2             | 2.8 | 4.5             | 2.7 |
|                          | 86                | 30.0 | 3.2               | 2.5 | 3.4             | 2.6 | 3.6             | 2.6 | 3.7             | 2.8 | 3.9             | 2.8 | 4.1             | 2.7 | 4.4             | 2.7 |
|                          | 91                | 32.5 | 3.2               | 2.5 | 3.3             | 2.6 | 3.5             | 2.6 | 3.7             | 2.8 | 3.8             | 2.7 | 4.0             | 2.7 | 4.3             | 2.7 |
|                          | 95                | 35.0 | 3.1               | 2.5 | 3.2             | 2.5 | 3.5             | 2.6 | 3.6             | 2.7 | 3.7             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 |
|                          | 100               | 37.5 | 3.1               | 2.5 | 3.2             | 2.5 | 3.4             | 2.5 | 3.5             | 2.7 | 3.7             | 2.7 | 3.9             | 2.7 | 4.1             | 2.6 |
|                          | 104               | 40.0 | 3.0               | 2.4 | 3.1             | 2.5 | 3.3             | 2.5 | 3.5             | 2.7 | 3.6             | 2.7 | 3.8             | 2.6 | 4.1             | 2.6 |
|                          | 110               | 43.0 | 3.0               | 2.4 | 3.0             | 2.5 | 3.2             | 2.4 | 3.4             | 2.6 | 3.5             | 2.6 | 3.7             | 2.6 | 4.0             | 2.6 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.2 | 4.5             | 3.3 | 4.8             | 3.3 | 5.0             | 3.5 | 5.2             | 3.5 | 5.5             | 3.5 | 5.9             | 3.4 |
|                          | 73                | 22.5 | 4.3               | 3.2 | 4.4             | 3.3 | 4.7             | 3.3 | 4.9             | 3.5 | 5.1             | 3.5 | 5.4             | 3.4 | 5.8             | 3.4 |
|                          | 77                | 25.0 | 4.2               | 3.2 | 4.4             | 3.3 | 4.7             | 3.3 | 4.8             | 3.4 | 5.0             | 3.4 | 5.3             | 3.4 | 5.7             | 3.4 |
|                          | 82                | 27.5 | 4.1               | 3.1 | 4.3             | 3.2 | 4.6             | 3.2 | 4.7             | 3.4 | 4.9             | 3.4 | 5.2             | 3.4 | 5.6             | 3.3 |
|                          | 86                | 30.0 | 4.1               | 3.1 | 4.2             | 3.2 | 4.5             | 3.2 | 4.7             | 3.4 | 4.8             | 3.4 | 5.1             | 3.3 | 5.5             | 3.3 |
|                          | 91                | 32.5 | 4.0               | 3.1 | 4.1             | 3.1 | 4.4             | 3.1 | 4.6             | 3.4 | 4.7             | 3.3 | 5.0             | 3.3 | 5.4             | 3.3 |
|                          | 95                | 35.0 | 3.9               | 3.0 | 4.1             | 3.1 | 4.3             | 3.1 | 4.5             | 3.3 | 4.6             | 3.3 | 5.0             | 3.3 | 5.3             | 3.2 |
|                          | 100               | 37.5 | 3.8               | 3.0 | 4.0             | 3.1 | 4.3             | 3.1 | 4.4             | 3.3 | 4.6             | 3.3 | 4.9             | 3.2 | 5.2             | 3.2 |
|                          | 104               | 40.0 | 3.8               | 3.0 | 3.9             | 3.0 | 4.2             | 3.0 | 4.3             | 3.2 | 4.5             | 3.2 | 4.8             | 3.2 | 5.1             | 3.2 |
|                          | 110               | 43.0 | 3.7               | 2.9 | 3.8             | 3.0 | 4.1             | 3.0 | 4.2             | 3.2 | 4.4             | 3.2 | 4.7             | 3.2 | 5.0             | 3.1 |
| 50<br>(5.6)              | 68                | 20.0 | 5.4               | 3.8 | 5.6             | 3.9 | 6.0             | 3.9 | 6.2             | 4.1 | 6.4             | 4.1 | 6.9             | 4.1 | 7.3             | 4.0 |
|                          | 73                | 22.5 | 5.3               | 3.8 | 5.5             | 3.9 | 5.9             | 3.9 | 6.1             | 4.1 | 6.3             | 4.1 | 6.8             | 4.1 | 7.2             | 4.0 |
|                          | 77                | 25.0 | 5.3               | 3.8 | 5.4             | 3.8 | 5.8             | 3.8 | 6.0             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 | 7.1             | 4.0 |
|                          | 82                | 27.5 | 5.2               | 3.7 | 5.3             | 3.8 | 5.7             | 3.8 | 5.9             | 4.0 | 6.1             | 4.0 | 6.5             | 3.9 | 6.9             | 3.9 |
|                          | 86                | 30.0 | 5.0               | 3.6 | 5.2             | 3.7 | 5.6             | 3.7 | 5.8             | 4.0 | 6.0             | 3.9 | 6.4             | 3.9 | 6.8             | 3.8 |
|                          | 91                | 32.5 | 5.0               | 3.6 | 5.1             | 3.7 | 5.5             | 3.7 | 5.7             | 3.9 | 5.9             | 3.9 | 6.3             | 3.9 | 6.7             | 3.8 |
|                          | 95                | 35.0 | 4.9               | 3.6 | 5.0             | 3.6 | 5.4             | 3.6 | 5.6             | 3.9 | 5.8             | 3.9 | 6.2             | 3.8 | 6.6             | 3.8 |
|                          | 100               | 37.5 | 4.8               | 3.5 | 5.0             | 3.6 | 5.3             | 3.6 | 5.5             | 3.8 | 5.7             | 3.8 | 6.0             | 3.7 | 6.4             | 3.7 |
|                          | 104               | 40.0 | 4.7               | 3.5 | 4.8             | 3.5 | 5.2             | 3.6 | 5.4             | 3.8 | 5.6             | 3.8 | 5.9             | 3.7 | 6.3             | 3.7 |
|                          | 110               | 43.0 | 4.6               | 3.4 | 4.7             | 3.5 | 5.0             | 3.5 | 5.2             | 3.7 | 5.4             | 3.7 | 5.8             | 3.7 | 6.2             | 3.6 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## H4. Cooling capacity with PUHY-RP700-800YSJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          |                   |      | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 63<br>(7.1)              | 68                | 20.0 | 6.9               | 5.3 | 7.1             | 5.4 | 7.6             | 5.4 | 7.9             | 5.8 | 8.2             | 5.8 | 8.7             | 5.7 | 9.3             | 5.6 |
|                          | 73                | 22.5 | 6.7               | 5.2 | 7.0             | 5.4 | 7.5             | 5.4 | 7.8             | 5.7 | 8.0             | 5.7 | 8.6             | 5.6 | 9.1             | 5.5 |
|                          | 77                | 25.0 | 6.7               | 5.2 | 6.9             | 5.3 | 7.4             | 5.3 | 7.6             | 5.6 | 7.9             | 5.6 | 8.4             | 5.6 | 8.9             | 5.5 |
|                          | 82                | 27.5 | 6.5               | 5.1 | 6.7             | 5.2 | 7.2             | 5.2 | 7.5             | 5.6 | 7.7             | 5.5 | 8.3             | 5.5 | 8.8             | 5.4 |
|                          | 86                | 30.0 | 6.4               | 5.0 | 6.6             | 5.2 | 7.1             | 5.2 | 7.3             | 5.5 | 7.6             | 5.5 | 8.1             | 5.4 | 8.7             | 5.4 |
|                          | 91                | 32.5 | 6.3               | 5.0 | 6.5             | 5.1 | 7.0             | 5.1 | 7.2             | 5.5 | 7.5             | 5.5 | 8.0             | 5.4 | 8.5             | 5.3 |
|                          | 95                | 35.0 | 6.2               | 4.9 | 6.4             | 5.1 | 6.8             | 5.1 | 7.1             | 5.4 | 7.3             | 5.4 | 7.8             | 5.3 | 8.3             | 5.3 |
|                          | 100               | 37.5 | 6.1               | 4.9 | 6.3             | 5.1 | 6.7             | 5.0 | 7.0             | 5.4 | 7.2             | 5.3 | 7.7             | 5.3 | 8.2             | 5.2 |
|                          | 104               | 40.0 | 6.0               | 4.8 | 6.1             | 5.0 | 6.6             | 5.0 | 6.8             | 5.3 | 7.1             | 5.3 | 7.5             | 5.2 | 8.0             | 5.2 |
|                          | 110               | 43.0 | 5.8               | 4.7 | 6.0             | 4.9 | 6.4             | 4.9 | 6.6             | 5.2 | 6.9             | 5.2 | 7.3             | 5.2 | 7.8             | 5.1 |
| 100<br>(11.2)            | 68                | 20.0 | 10.8              | 7.7 | 11.2            | 8.0 | 12.0            | 7.9 | 12.5            | 8.4 | 12.9            | 8.4 | 13.8            | 8.3 | 14.6            | 8.2 |
|                          | 73                | 22.5 | 10.6              | 7.6 | 11.0            | 7.9 | 11.8            | 7.8 | 12.2            | 8.3 | 12.7            | 8.3 | 13.6            | 8.2 | 14.3            | 8.0 |
|                          | 77                | 25.0 | 10.5              | 7.6 | 10.9            | 7.8 | 11.6            | 7.7 | 12.0            | 8.2 | 12.4            | 8.1 | 13.2            | 8.1 | 14.1            | 8.0 |
|                          | 82                | 27.5 | 10.3              | 7.5 | 10.6            | 7.7 | 11.4            | 7.6 | 11.8            | 8.1 | 12.2            | 8.1 | 13.0            | 8.0 | 13.9            | 7.9 |
|                          | 86                | 30.0 | 10.1              | 7.4 | 10.5            | 7.6 | 11.2            | 7.6 | 11.6            | 8.0 | 12.0            | 8.0 | 12.8            | 7.9 | 13.7            | 7.8 |
|                          | 91                | 32.5 | 9.9               | 7.3 | 10.2            | 7.5 | 11.0            | 7.5 | 11.4            | 7.9 | 11.8            | 7.9 | 12.5            | 7.8 | 13.4            | 7.7 |
|                          | 95                | 35.0 | 9.7               | 7.2 | 10.1            | 7.4 | 10.8            | 7.4 | 11.2            | 7.8 | 11.5            | 7.8 | 12.3            | 7.7 | 13.1            | 7.6 |
|                          | 100               | 37.5 | 9.6               | 7.1 | 10.0            | 7.4 | 10.6            | 7.3 | 11.0            | 7.7 | 11.4            | 7.7 | 12.1            | 7.6 | 12.9            | 7.5 |
|                          | 104               | 40.0 | 9.4               | 7.0 | 9.6             | 7.2 | 10.4            | 7.2 | 10.8            | 7.6 | 11.1            | 7.6 | 11.9            | 7.5 | 12.6            | 7.4 |
|                          | 110               | 43.0 | 9.2               | 6.9 | 9.4             | 7.1 | 10.1            | 7.1 | 10.5            | 7.5 | 10.9            | 7.5 | 11.6            | 7.4 | 12.3            | 7.3 |

# CAPACITY TABLES

## H5. Cooling capacity with PUHY-RP850, 900YSJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 15<br>(1.7)              | 68                | 20.0 | 1.6               | 1.2 | 1.6             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 73                | 22.5 | 1.6               | 1.2 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 77                | 25.0 | 1.6               | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 82                | 27.5 | 1.6               | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 1.8             | 1.2 | 2.0             | 1.2 | 2.1             | 1.2 |
|                          | 86                | 30.0 | 1.5               | 1.1 | 1.6             | 1.2 | 1.7             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 91                | 32.5 | 1.5               | 1.1 | 1.6             | 1.1 | 1.7             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 95                | 35.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 100               | 37.5 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.8             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 104               | 40.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.7             | 1.2 | 1.7             | 1.2 | 1.9             | 1.2 | 2.0             | 1.2 |
|                          | 110               | 43.0 | 1.5               | 1.1 | 1.5             | 1.1 | 1.6             | 1.1 | 1.6             | 1.2 | 1.7             | 1.2 | 1.8             | 1.2 | 2.0             | 1.2 |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.5 | 2.1             | 1.5 | 2.3             | 1.5 | 2.4             | 1.6 | 2.4             | 1.6 | 2.6             | 1.6 | 2.8             | 1.5 |
|                          | 73                | 22.5 | 2.1               | 1.5 | 2.1             | 1.5 | 2.3             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.6             | 1.6 | 2.7             | 1.5 |
|                          | 77                | 25.0 | 2.0               | 1.5 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.6             | 1.6 | 2.7             | 1.5 |
|                          | 82                | 27.5 | 2.0               | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.3             | 1.6 | 2.4             | 1.6 | 2.5             | 1.5 | 2.7             | 1.5 |
|                          | 86                | 30.0 | 2.0               | 1.4 | 2.0             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.3             | 1.5 | 2.5             | 1.5 | 2.7             | 1.5 |
|                          | 91                | 32.5 | 2.0               | 1.4 | 2.0             | 1.5 | 2.2             | 1.5 | 2.2             | 1.5 | 2.3             | 1.5 | 2.5             | 1.5 | 2.6             | 1.5 |
|                          | 95                | 35.0 | 1.9               | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.5 | 2.3             | 1.5 | 2.5             | 1.5 | 2.6             | 1.5 |
|                          | 100               | 37.5 | 1.9               | 1.4 | 2.0             | 1.4 | 2.1             | 1.4 | 2.2             | 1.5 | 2.3             | 1.5 | 2.4             | 1.5 | 2.6             | 1.5 |
|                          | 104               | 40.0 | 1.9               | 1.4 | 1.9             | 1.4 | 2.1             | 1.4 | 2.2             | 1.5 | 2.2             | 1.5 | 2.4             | 1.5 | 2.6             | 1.5 |
|                          | 110               | 43.0 | 1.9               | 1.4 | 1.9             | 1.4 | 2.1             | 1.4 | 2.1             | 1.5 | 2.2             | 1.5 | 2.4             | 1.5 | 2.5             | 1.5 |
| 25<br>(2.8)              | 68                | 20.0 | 2.6               | 1.9 | 2.7             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 73                | 22.5 | 2.6               | 1.9 | 2.7             | 1.9 | 2.9             | 1.9 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 | 3.5             | 1.9 |
|                          | 77                | 25.0 | 2.6               | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 82                | 27.5 | 2.6               | 1.8 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 86                | 30.0 | 2.5               | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 | 2.9             | 1.9 | 3.0             | 1.9 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 91                | 32.5 | 2.5               | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.2             | 1.9 | 3.4             | 1.9 |
|                          | 95                | 35.0 | 2.5               | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 100               | 37.5 | 2.5               | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 | 2.8             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.9 |
|                          | 104               | 40.0 | 2.4               | 1.7 | 2.5             | 1.8 | 2.6             | 1.8 | 2.7             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 | 3.3             | 1.8 |
|                          | 110               | 43.0 | 2.4               | 1.7 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.9 | 2.8             | 1.9 | 3.0             | 1.9 | 3.2             | 1.8 |
| 32<br>(3.6)              | 68                | 20.0 | 3.4               | 2.6 | 3.5             | 2.7 | 3.7             | 2.7 | 3.9             | 2.8 | 4.0             | 2.8 | 4.2             | 2.8 | 4.5             | 2.8 |
|                          | 73                | 22.5 | 3.4               | 2.6 | 3.5             | 2.7 | 3.7             | 2.7 | 3.8             | 2.8 | 4.0             | 2.8 | 4.2             | 2.8 | 4.5             | 2.7 |
|                          | 77                | 25.0 | 3.3               | 2.6 | 3.4             | 2.6 | 3.7             | 2.6 | 3.8             | 2.8 | 3.9             | 2.8 | 4.2             | 2.8 | 4.4             | 2.7 |
|                          | 82                | 27.5 | 3.3               | 2.6 | 3.4             | 2.6 | 3.6             | 2.6 | 3.7             | 2.8 | 3.9             | 2.8 | 4.1             | 2.8 | 4.4             | 2.7 |
|                          | 86                | 30.0 | 3.3               | 2.5 | 3.3             | 2.6 | 3.6             | 2.6 | 3.7             | 2.8 | 3.8             | 2.8 | 4.1             | 2.7 | 4.3             | 2.7 |
|                          | 91                | 32.5 | 3.2               | 2.5 | 3.3             | 2.6 | 3.5             | 2.6 | 3.7             | 2.8 | 3.8             | 2.7 | 4.1             | 2.7 | 4.3             | 2.7 |
|                          | 95                | 35.0 | 3.2               | 2.5 | 3.3             | 2.6 | 3.5             | 2.6 | 3.6             | 2.7 | 3.8             | 2.7 | 4.0             | 2.7 | 4.3             | 2.7 |
|                          | 100               | 37.5 | 3.2               | 2.5 | 3.2             | 2.5 | 3.4             | 2.5 | 3.6             | 2.7 | 3.7             | 2.7 | 4.0             | 2.7 | 4.2             | 2.7 |
|                          | 104               | 40.0 | 3.1               | 2.5 | 3.2             | 2.5 | 3.4             | 2.5 | 3.5             | 2.7 | 3.7             | 2.7 | 3.9             | 2.7 | 4.2             | 2.6 |
|                          | 110               | 43.0 | 3.1               | 2.5 | 3.1             | 2.5 | 3.4             | 2.5 | 3.5             | 2.7 | 3.6             | 2.7 | 3.9             | 2.7 | 4.2             | 2.6 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.2 | 4.4             | 3.3 | 4.7             | 3.3 | 4.8             | 3.4 | 5.0             | 3.4 | 5.3             | 3.4 | 5.6             | 3.3 |
|                          | 73                | 22.5 | 4.2               | 3.2 | 4.3             | 3.2 | 4.6             | 3.2 | 4.8             | 3.4 | 4.9             | 3.4 | 5.3             | 3.4 | 5.6             | 3.3 |
|                          | 77                | 25.0 | 4.2               | 3.1 | 4.3             | 3.2 | 4.6             | 3.2 | 4.7             | 3.4 | 4.9             | 3.4 | 5.2             | 3.4 | 5.5             | 3.3 |
|                          | 82                | 27.5 | 4.1               | 3.1 | 4.2             | 3.2 | 4.5             | 3.2 | 4.7             | 3.4 | 4.8             | 3.4 | 5.2             | 3.3 | 5.5             | 3.3 |
|                          | 86                | 30.0 | 4.1               | 3.1 | 4.2             | 3.2 | 4.5             | 3.2 | 4.6             | 3.4 | 4.8             | 3.3 | 5.1             | 3.3 | 5.4             | 3.3 |
|                          | 91                | 32.5 | 4.0               | 3.1 | 4.1             | 3.1 | 4.4             | 3.1 | 4.6             | 3.3 | 4.7             | 3.3 | 5.1             | 3.3 | 5.4             | 3.3 |
|                          | 95                | 35.0 | 4.0               | 3.1 | 4.1             | 3.1 | 4.4             | 3.1 | 4.5             | 3.3 | 4.7             | 3.3 | 5.0             | 3.3 | 5.3             | 3.2 |
|                          | 100               | 37.5 | 3.9               | 3.0 | 4.0             | 3.1 | 4.3             | 3.1 | 4.5             | 3.3 | 4.6             | 3.3 | 5.0             | 3.3 | 5.3             | 3.2 |
|                          | 104               | 40.0 | 3.9               | 3.0 | 4.0             | 3.1 | 4.3             | 3.1 | 4.4             | 3.3 | 4.6             | 3.3 | 4.9             | 3.2 | 5.2             | 3.2 |
|                          | 110               | 43.0 | 3.8               | 3.0 | 3.9             | 3.1 | 4.2             | 3.0 | 4.4             | 3.2 | 4.5             | 3.2 | 4.9             | 3.2 | 5.2             | 3.2 |
| 50<br>(5.6)              | 68                | 20.0 | 5.3               | 3.8 | 5.4             | 3.9 | 5.8             | 3.8 | 6.0             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 | 7.0             | 3.9 |
|                          | 73                | 22.5 | 5.2               | 3.7 | 5.4             | 3.8 | 5.8             | 3.8 | 5.9             | 4.0 | 6.1             | 4.0 | 6.6             | 4.0 | 7.0             | 3.9 |
|                          | 77                | 25.0 | 5.2               | 3.7 | 5.3             | 3.8 | 5.7             | 3.8 | 5.9             | 4.0 | 6.1             | 4.0 | 6.5             | 3.9 | 6.9             | 3.9 |
|                          | 82                | 27.5 | 5.1               | 3.7 | 5.3             | 3.8 | 5.6             | 3.7 | 5.8             | 4.0 | 6.0             | 4.0 | 6.4             | 3.9 | 6.8             | 3.9 |
|                          | 86                | 30.0 | 5.1               | 3.7 | 5.2             | 3.7 | 5.6             | 3.7 | 5.8             | 3.9 | 5.9             | 3.9 | 6.4             | 3.9 | 6.7             | 3.8 |
|                          | 91                | 32.5 | 5.0               | 3.6 | 5.1             | 3.7 | 5.5             | 3.7 | 5.7             | 3.9 | 5.9             | 3.9 | 6.3             | 3.9 | 6.7             | 3.8 |
|                          | 95                | 35.0 | 5.0               | 3.6 | 5.1             | 3.7 | 5.4             | 3.7 | 5.6             | 3.9 | 5.8             | 3.9 | 6.3             | 3.8 | 6.7             | 3.8 |
|                          | 100               | 37.5 | 4.9               | 3.6 | 5.0             | 3.6 | 5.4             | 3.6 | 5.6             | 3.8 | 5.8             | 3.8 | 6.2             | 3.8 | 6.6             | 3.8 |
|                          | 104               | 40.0 | 4.8               | 3.5 | 4.9             | 3.6 | 5.3             | 3.6 | 5.5             | 3.8 | 5.7             | 3.8 | 6.1             | 3.8 | 6.5             | 3.7 |
|                          | 110               | 43.0 | 4.8               | 3.5 | 4.9             | 3.6 | 5.2             | 3.6 | 5.4             | 3.8 | 5.6             | 3.8 | 6.0             | 3.8 | 6.5             | 3.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## H5. Cooling capacity with PUHY-RP850, 900YSJM

PKFY-P-VBM-E,VHM-E,VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          |                   |      | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 63<br>(7.1)              | 68                | 20.0 | 6.7               | 5.2 | 6.9             | 5.3 | 7.4             | 5.3 | 7.6             | 5.6 | 7.9             | 5.6 | 8.4             | 5.6 | 8.9             | 5.5 |
|                          | 73                | 22.5 | 6.6               | 5.1 | 6.8             | 5.3 | 7.3             | 5.3 | 7.5             | 5.6 | 7.8             | 5.6 | 8.3             | 5.5 | 8.8             | 5.4 |
|                          | 77                | 25.0 | 6.6               | 5.1 | 6.7             | 5.3 | 7.2             | 5.2 | 7.5             | 5.6 | 7.7             | 5.6 | 8.2             | 5.5 | 8.7             | 5.4 |
|                          | 82                | 27.5 | 6.5               | 5.1 | 6.7             | 5.2 | 7.1             | 5.2 | 7.4             | 5.5 | 7.6             | 5.5 | 8.2             | 5.5 | 8.7             | 5.4 |
|                          | 86                | 30.0 | 6.4               | 5.0 | 6.6             | 5.2 | 7.1             | 5.2 | 7.3             | 5.5 | 7.5             | 5.5 | 8.1             | 5.4 | 8.6             | 5.4 |
|                          | 91                | 32.5 | 6.4               | 5.0 | 6.5             | 5.1 | 7.0             | 5.1 | 7.2             | 5.5 | 7.5             | 5.5 | 8.0             | 5.4 | 8.5             | 5.3 |
|                          | 95                | 35.0 | 6.3               | 5.0 | 6.4             | 5.1 | 6.9             | 5.1 | 7.1             | 5.4 | 7.4             | 5.4 | 7.9             | 5.4 | 8.4             | 5.3 |
|                          | 100               | 37.5 | 6.2               | 4.9 | 6.3             | 5.1 | 6.8             | 5.1 | 7.0             | 5.4 | 7.3             | 5.4 | 7.8             | 5.4 | 8.4             | 5.3 |
|                          | 104               | 40.0 | 6.1               | 4.9 | 6.2             | 5.0 | 6.7             | 5.0 | 7.0             | 5.4 | 7.2             | 5.4 | 7.8             | 5.3 | 8.3             | 5.3 |
|                          | 110               | 43.0 | 6.1               | 4.9 | 6.2             | 5.0 | 6.6             | 5.0 | 6.9             | 5.3 | 7.2             | 5.3 | 7.7             | 5.3 | 8.2             | 5.2 |
| 100<br>(11.2)            | 68                | 20.0 | 10.6              | 7.6 | 10.9            | 7.8 | 11.6            | 7.8 | 12.0            | 8.2 | 12.4            | 8.2 | 13.2            | 8.1 | 14.0            | 7.9 |
|                          | 73                | 22.5 | 10.5              | 7.5 | 10.8            | 7.7 | 11.5            | 7.7 | 11.9            | 8.1 | 12.3            | 8.1 | 13.1            | 8.0 | 13.9            | 7.9 |
|                          | 77                | 25.0 | 10.4              | 7.5 | 10.6            | 7.7 | 11.4            | 7.6 | 11.8            | 8.1 | 12.2            | 8.1 | 13.0            | 8.0 | 13.8            | 7.9 |
|                          | 82                | 27.5 | 10.2              | 7.4 | 10.5            | 7.6 | 11.2            | 7.6 | 11.6            | 8.0 | 12.0            | 8.0 | 12.9            | 7.9 | 13.7            | 7.8 |
|                          | 86                | 30.0 | 10.1              | 7.4 | 10.4            | 7.5 | 11.1            | 7.5 | 11.5            | 8.0 | 11.9            | 7.9 | 12.7            | 7.9 | 13.5            | 7.7 |
|                          | 91                | 32.5 | 10.0              | 7.3 | 10.2            | 7.5 | 11.0            | 7.5 | 11.4            | 7.9 | 11.8            | 7.9 | 12.6            | 7.8 | 13.4            | 7.7 |
|                          | 95                | 35.0 | 9.9               | 7.3 | 10.1            | 7.4 | 10.9            | 7.4 | 11.2            | 7.8 | 11.7            | 7.8 | 12.5            | 7.8 | 13.3            | 7.7 |
|                          | 100               | 37.5 | 9.8               | 7.2 | 10.0            | 7.4 | 10.7            | 7.3 | 11.1            | 7.8 | 11.6            | 7.8 | 12.4            | 7.7 | 13.2            | 7.6 |
|                          | 104               | 40.0 | 9.7               | 7.2 | 9.9             | 7.3 | 10.6            | 7.3 | 11.0            | 7.7 | 11.4            | 7.7 | 12.2            | 7.7 | 13.0            | 7.6 |
|                          | 110               | 43.0 | 9.6               | 7.1 | 9.7             | 7.2 | 10.4            | 7.2 | 10.8            | 7.7 | 11.3            | 7.7 | 12.1            | 7.6 | 12.9            | 7.5 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I1. Cooling capacity with PUHY-RP200, 250YJM/PURY-RP200, 250YJM

PFFY-P-VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |                 |                 |                 |                 |                 |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71 °FDB / 59°FWB  |                 | 73°FDB / 61°FWB |                 | 77°FDB / 64°FWB |                 | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB | 23°CDB / 16°CWB | 25°CDB / 18°CWB | 27°CDB / 19°CWB | 28°CDB / 20°CWB | 30°CDB / 22°CWB | 32°CDB / 24°CWB |     |                 |     |                 |     |                 |     |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.7             | 2.2             | 1.7             | 2.3             | 1.7             | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 73                | 22.5 | 2.1               | 1.7             | 2.2             | 1.7             | 2.3             | 1.7             | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 77                | 25.0 | 2.1               | 1.7             | 2.2             | 1.7             | 2.3             | 1.7             | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 |
|                          | 82                | 27.5 | 2.1               | 1.7             | 2.1             | 1.7             | 2.3             | 1.7             | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 86                | 30.0 | 2.0               | 1.7             | 2.1             | 1.7             | 2.2             | 1.7             | 2.3             | 1.7 | 2.3             | 1.8 | 2.5             | 1.8 | 2.6             | 1.7 |
|                          | 91                | 32.5 | 2.0               | 1.6             | 2.1             | 1.7             | 2.2             | 1.7             | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 2.0               | 1.6             | 2.0             | 1.7             | 2.1             | 1.7             | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
|                          | 100               | 37.5 | 1.9               | 1.6             | 2.0             | 1.6             | 2.1             | 1.6             | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.5             | 1.7 |
|                          | 104               | 40.0 | 1.9               | 1.6             | 1.9             | 1.6             | 2.1             | 1.6             | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 |
| 110                      | 43.0              | 1.8  | 1.6               | 1.9             | 1.6             | 2.0             | 1.6             | 2.0             | 1.6             | 2.1 | 1.7             | 2.2 | 1.7             | 2.4 | 1.6             |     |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 2.0             | 2.8             | 2.1             | 2.9             | 2.0             | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 73                | 22.5 | 2.7               | 2.0             | 2.8             | 2.1             | 2.9             | 2.0             | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 77                | 25.0 | 2.7               | 2.0             | 2.8             | 2.1             | 2.9             | 2.0             | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 82                | 27.5 | 2.6               | 2.0             | 2.7             | 2.0             | 2.9             | 2.0             | 3.0             | 2.0 | 3.1             | 2.1 | 3.2             | 2.1 | 3.4             | 2.1 |
|                          | 86                | 30.0 | 2.6               | 2.0             | 2.7             | 2.0             | 2.8             | 2.0             | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.0 |
|                          | 91                | 32.5 | 2.5               | 1.9             | 2.6             | 2.0             | 2.8             | 2.0             | 2.8             | 2.0 | 2.9             | 2.1 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 95                | 35.0 | 2.5               | 1.9             | 2.6             | 2.0             | 2.7             | 1.9             | 2.8             | 2.0 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 |
|                          | 100               | 37.5 | 2.5               | 1.9             | 2.5             | 1.9             | 2.7             | 1.9             | 2.7             | 1.9 | 2.8             | 2.0 | 3.0             | 2.0 | 3.1             | 2.0 |
|                          | 104               | 40.0 | 2.4               | 1.9             | 2.5             | 1.9             | 2.6             | 1.9             | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 1.9 |
| 110                      | 43.0              | 2.4  | 1.8               | 2.4             | 1.9             | 2.6             | 1.9             | 2.6             | 1.9             | 2.7 | 2.0             | 2.8 | 1.9             | 3.0 | 1.9             |     |
| 32<br>(3.6)              | 68                | 20.0 | 3.4               | 2.4             | 3.5             | 2.5             | 3.8             | 2.5             | 3.9             | 2.5 | 4.0             | 2.6 | 4.2             | 2.6 | 4.6             | 2.5 |
|                          | 73                | 22.5 | 3.4               | 2.4             | 3.5             | 2.5             | 3.8             | 2.5             | 3.9             | 2.5 | 4.0             | 2.6 | 4.2             | 2.6 | 4.6             | 2.5 |
|                          | 77                | 25.0 | 3.4               | 2.4             | 3.5             | 2.5             | 3.8             | 2.5             | 3.9             | 2.5 | 4.0             | 2.6 | 4.2             | 2.5 | 4.5             | 2.5 |
|                          | 82                | 27.5 | 3.4               | 2.4             | 3.5             | 2.5             | 3.7             | 2.4             | 3.8             | 2.5 | 3.9             | 2.6 | 4.1             | 2.5 | 4.4             | 2.5 |
|                          | 86                | 30.0 | 3.3               | 2.4             | 3.4             | 2.4             | 3.6             | 2.4             | 3.7             | 2.4 | 3.8             | 2.5 | 4.0             | 2.5 | 4.3             | 2.4 |
|                          | 91                | 32.5 | 3.3               | 2.3             | 3.4             | 2.4             | 3.6             | 2.4             | 3.7             | 2.4 | 3.8             | 2.5 | 4.0             | 2.4 | 4.2             | 2.4 |
|                          | 95                | 35.0 | 3.2               | 2.3             | 3.3             | 2.4             | 3.5             | 2.4             | 3.6             | 2.4 | 3.7             | 2.5 | 3.9             | 2.4 | 4.1             | 2.4 |
|                          | 100               | 37.5 | 3.2               | 2.3             | 3.2             | 2.3             | 3.4             | 2.3             | 3.5             | 2.3 | 3.6             | 2.4 | 3.8             | 2.4 | 4.0             | 2.3 |
|                          | 104               | 40.0 | 3.1               | 2.3             | 3.2             | 2.3             | 3.4             | 2.3             | 3.5             | 2.3 | 3.6             | 2.4 | 3.7             | 2.3 | 4.0             | 2.3 |
| 110                      | 43.0              | 3.0  | 2.2               | 3.1             | 2.3             | 3.3             | 2.3             | 3.3             | 2.3             | 3.5 | 2.4             | 3.6 | 2.3             | 3.9 | 2.3             |     |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.0             | 4.4             | 3.1             | 4.7             | 3.1             | 4.9             | 3.1 | 5.0             | 3.2 | 5.3             | 3.2 | 5.7             | 3.1 |
|                          | 73                | 22.5 | 4.3               | 3.0             | 4.4             | 3.1             | 4.7             | 3.1             | 4.9             | 3.1 | 5.0             | 3.2 | 5.3             | 3.2 | 5.7             | 3.1 |
|                          | 77                | 25.0 | 4.3               | 3.0             | 4.4             | 3.1             | 4.7             | 3.1             | 4.9             | 3.1 | 5.0             | 3.2 | 5.3             | 3.1 | 5.6             | 3.1 |
|                          | 82                | 27.5 | 4.3               | 3.0             | 4.4             | 3.1             | 4.6             | 3.0             | 4.8             | 3.0 | 4.9             | 3.1 | 5.2             | 3.1 | 5.5             | 3.0 |
|                          | 86                | 30.0 | 4.2               | 2.9             | 4.3             | 3.0             | 4.6             | 3.0             | 4.7             | 3.0 | 4.8             | 3.1 | 5.0             | 3.0 | 5.4             | 3.0 |
|                          | 91                | 32.5 | 4.1               | 2.9             | 4.2             | 3.0             | 4.5             | 2.9             | 4.6             | 3.0 | 4.7             | 3.1 | 5.0             | 3.0 | 5.3             | 3.0 |
|                          | 95                | 35.0 | 4.0               | 2.9             | 4.1             | 2.9             | 4.4             | 2.9             | 4.5             | 2.9 | 4.6             | 3.0 | 4.9             | 3.0 | 5.2             | 2.9 |
|                          | 100               | 37.5 | 3.9               | 2.8             | 4.1             | 2.9             | 4.3             | 2.9             | 4.4             | 2.9 | 4.5             | 3.0 | 4.8             | 2.9 | 5.0             | 2.9 |
|                          | 104               | 40.0 | 3.9               | 2.8             | 4.0             | 2.9             | 4.2             | 2.8             | 4.3             | 2.8 | 4.5             | 2.9 | 4.7             | 2.9 | 5.0             | 2.8 |
| 110                      | 43.0              | 3.8  | 2.7               | 3.9             | 2.8             | 4.1             | 2.8             | 4.2             | 2.8             | 4.3 | 2.9             | 4.5 | 2.8             | 4.8 | 2.8             |     |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## 11. Cooling capacity with PUHY-RP200, 250YJM/PURY-RP200, 250YJM

PFFY-P-VLEM-E,VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.9 | 2.2             | 2.0 | 2.3             | 1.9 | 2.4             | 2.0 | 2.5             | 2.1 | 2.6             | 2.0 | 2.8             | 2.0 |
|                          | 73                | 22.5 | 2.1               | 1.9 | 2.2             | 2.0 | 2.3             | 1.9 | 2.4             | 2.0 | 2.5             | 2.1 | 2.6             | 2.0 | 2.8             | 2.0 |
|                          | 77                | 25.0 | 2.1               | 1.9 | 2.2             | 2.0 | 2.3             | 1.9 | 2.4             | 2.0 | 2.4             | 2.1 | 2.6             | 2.0 | 2.7             | 2.0 |
|                          | 82                | 27.5 | 2.1               | 1.9 | 2.1             | 1.9 | 2.3             | 1.9 | 2.3             | 2.0 | 2.4             | 2.1 | 2.5             | 2.0 | 2.7             | 2.0 |
|                          | 86                | 30.0 | 2.0               | 1.9 | 2.1             | 1.9 | 2.2             | 1.9 | 2.3             | 2.0 | 2.3             | 2.0 | 2.5             | 2.0 | 2.6             | 2.0 |
|                          | 91                | 32.5 | 2.0               | 1.8 | 2.1             | 1.9 | 2.2             | 1.9 | 2.2             | 1.9 | 2.3             | 2.0 | 2.4             | 2.0 | 2.6             | 2.0 |
|                          | 95                | 35.0 | 2.0               | 1.8 | 2.0             | 1.9 | 2.1             | 1.9 | 2.2             | 1.9 | 2.3             | 2.0 | 2.4             | 2.0 | 2.5             | 1.9 |
|                          | 100               | 37.5 | 1.9               | 1.8 | 2.0             | 1.9 | 2.1             | 1.9 | 2.1             | 1.9 | 2.2             | 2.0 | 2.3             | 2.0 | 2.5             | 1.9 |
|                          | 104               | 40.0 | 1.9               | 1.8 | 1.9             | 1.9 | 2.1             | 1.8 | 2.1             | 1.9 | 2.2             | 2.0 | 2.3             | 1.9 | 2.4             | 1.9 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 2.1 | 2.8             | 2.2 | 2.9             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.3 |
|                          | 73                | 22.5 | 2.7               | 2.1 | 2.8             | 2.2 | 2.9             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.3 |
|                          | 77                | 25.0 | 2.7               | 2.1 | 2.8             | 2.2 | 2.9             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.3 |
|                          | 82                | 27.5 | 2.6               | 2.1 | 2.7             | 2.2 | 2.9             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.2             | 2.3 | 3.4             | 2.2 |
|                          | 86                | 30.0 | 2.6               | 2.1 | 2.7             | 2.2 | 2.8             | 2.2 | 2.9             | 2.2 | 3.0             | 2.3 | 3.1             | 2.2 | 3.3             | 2.2 |
|                          | 91                | 32.5 | 2.5               | 2.1 | 2.6             | 2.2 | 2.8             | 2.1 | 2.8             | 2.2 | 2.9             | 2.3 | 3.1             | 2.2 | 3.3             | 2.2 |
|                          | 95                | 35.0 | 2.5               | 2.1 | 2.6             | 2.1 | 2.7             | 2.1 | 2.8             | 2.2 | 2.9             | 2.2 | 3.0             | 2.2 | 3.2             | 2.2 |
|                          | 100               | 37.5 | 2.5               | 2.0 | 2.5             | 2.1 | 2.7             | 2.1 | 2.7             | 2.1 | 2.8             | 2.2 | 3.0             | 2.2 | 3.1             | 2.1 |
|                          | 104               | 40.0 | 2.4               | 2.0 | 2.5             | 2.1 | 2.6             | 2.1 | 2.7             | 2.1 | 2.8             | 2.2 | 2.9             | 2.2 | 3.1             | 2.1 |
| 32<br>(3.6)              | 68                | 20.0 | 3.4               | 2.5 | 3.5             | 2.6 | 3.8             | 2.5 | 3.9             | 2.6 | 4.0             | 2.7 | 4.2             | 2.6 | 4.6             | 2.6 |
|                          | 73                | 22.5 | 3.4               | 2.5 | 3.5             | 2.6 | 3.8             | 2.5 | 3.9             | 2.6 | 4.0             | 2.7 | 4.2             | 2.6 | 4.6             | 2.6 |
|                          | 77                | 25.0 | 3.4               | 2.5 | 3.5             | 2.6 | 3.8             | 2.5 | 3.9             | 2.6 | 4.0             | 2.6 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 82                | 27.5 | 3.4               | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.8             | 2.5 | 3.9             | 2.6 | 4.1             | 2.6 | 4.4             | 2.5 |
|                          | 86                | 30.0 | 3.3               | 2.4 | 3.4             | 2.5 | 3.6             | 2.5 | 3.7             | 2.5 | 3.8             | 2.6 | 4.0             | 2.5 | 4.3             | 2.5 |
|                          | 91                | 32.5 | 3.3               | 2.4 | 3.4             | 2.5 | 3.6             | 2.4 | 3.7             | 2.5 | 3.8             | 2.6 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 95                | 35.0 | 3.2               | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.6             | 2.4 | 3.7             | 2.5 | 3.9             | 2.5 | 4.1             | 2.4 |
|                          | 100               | 37.5 | 3.2               | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.4 | 3.6             | 2.5 | 3.8             | 2.5 | 4.0             | 2.4 |
|                          | 104               | 40.0 | 3.1               | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.4 | 3.6             | 2.5 | 3.7             | 2.4 | 4.0             | 2.4 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.9             | 3.2 | 5.0             | 3.3 | 5.3             | 3.3 | 5.7             | 3.3 |
|                          | 73                | 22.5 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.9             | 3.2 | 5.0             | 3.3 | 5.3             | 3.3 | 5.7             | 3.3 |
|                          | 77                | 25.0 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.9             | 3.2 | 5.0             | 3.3 | 5.3             | 3.3 | 5.6             | 3.2 |
|                          | 82                | 27.5 | 4.3               | 3.1 | 4.4             | 3.2 | 4.6             | 3.1 | 4.8             | 3.2 | 4.9             | 3.3 | 5.2             | 3.2 | 5.5             | 3.2 |
|                          | 86                | 30.0 | 4.2               | 3.1 | 4.3             | 3.1 | 4.6             | 3.1 | 4.7             | 3.1 | 4.8             | 3.3 | 5.0             | 3.2 | 5.4             | 3.2 |
|                          | 91                | 32.5 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.6             | 3.1 | 4.7             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 95                | 35.0 | 4.0               | 3.0 | 4.1             | 3.1 | 4.4             | 3.0 | 4.5             | 3.1 | 4.6             | 3.2 | 4.9             | 3.1 | 5.2             | 3.1 |
|                          | 100               | 37.5 | 3.9               | 2.9 | 4.1             | 3.0 | 4.3             | 3.0 | 4.4             | 3.0 | 4.5             | 3.1 | 4.8             | 3.1 | 5.0             | 3.0 |
|                          | 104               | 40.0 | 3.9               | 2.9 | 4.0             | 3.0 | 4.2             | 3.0 | 4.3             | 3.0 | 4.5             | 3.1 | 4.7             | 3.0 | 5.0             | 3.0 |
| 50<br>(5.6)              | 68                | 20.0 | 5.3               | 3.9 | 5.5             | 4.1 | 5.9             | 4.0 | 6.0             | 4.1 | 6.2             | 4.2 | 6.6             | 4.2 | 7.1             | 4.1 |
|                          | 73                | 22.5 | 5.3               | 3.9 | 5.5             | 4.1 | 5.9             | 4.0 | 6.0             | 4.1 | 6.2             | 4.2 | 6.6             | 4.2 | 7.1             | 4.1 |
|                          | 77                | 25.0 | 5.3               | 3.9 | 5.5             | 4.1 | 5.9             | 4.0 | 6.0             | 4.1 | 6.2             | 4.2 | 6.6             | 4.2 | 6.9             | 4.1 |
|                          | 82                | 27.5 | 5.3               | 3.9 | 5.5             | 4.0 | 5.8             | 4.0 | 5.9             | 4.0 | 6.1             | 4.2 | 6.4             | 4.1 | 6.8             | 4.0 |
|                          | 86                | 30.0 | 5.2               | 3.9 | 5.3             | 4.0 | 5.7             | 3.9 | 5.8             | 4.0 | 6.0             | 4.1 | 6.3             | 4.0 | 6.7             | 4.0 |
|                          | 91                | 32.5 | 5.1               | 3.8 | 5.3             | 3.9 | 5.5             | 3.9 | 5.7             | 3.9 | 5.9             | 4.1 | 6.2             | 4.0 | 6.6             | 3.9 |
|                          | 95                | 35.0 | 5.0               | 3.8 | 5.2             | 3.9 | 5.5             | 3.8 | 5.6             | 3.9 | 5.7             | 4.0 | 6.0             | 4.0 | 6.4             | 3.9 |
|                          | 100               | 37.5 | 4.9               | 3.7 | 5.0             | 3.8 | 5.3             | 3.8 | 5.5             | 3.8 | 5.6             | 4.0 | 5.9             | 3.9 | 6.3             | 3.8 |
|                          | 104               | 40.0 | 4.8               | 3.7 | 5.0             | 3.8 | 5.3             | 3.8 | 5.4             | 3.8 | 5.5             | 3.9 | 5.8             | 3.9 | 6.2             | 3.8 |
| 63<br>(7.1)              | 68                | 20.0 | 6.7               | 4.9 | 7.0             | 5.0 | 7.5             | 5.0 | 7.7             | 5.0 | 7.9             | 5.2 | 8.4             | 5.1 | 9.0             | 5.1 |
|                          | 73                | 22.5 | 6.7               | 4.9 | 7.0             | 5.0 | 7.5             | 5.0 | 7.7             | 5.0 | 7.9             | 5.2 | 8.4             | 5.1 | 9.0             | 5.1 |
|                          | 77                | 25.0 | 6.7               | 4.9 | 7.0             | 5.0 | 7.5             | 5.0 | 7.7             | 5.0 | 7.8             | 5.2 | 8.3             | 5.1 | 8.8             | 5.0 |
|                          | 82                | 27.5 | 6.7               | 4.9 | 6.9             | 5.0 | 7.3             | 4.9 | 7.5             | 5.0 | 7.7             | 5.1 | 8.1             | 5.0 | 8.7             | 5.0 |
|                          | 86                | 30.0 | 6.6               | 4.8 | 6.8             | 4.9 | 7.2             | 4.9 | 7.4             | 4.9 | 7.6             | 5.1 | 8.0             | 5.0 | 8.5             | 4.9 |
|                          | 91                | 32.5 | 6.5               | 4.7 | 6.7             | 4.9 | 7.0             | 4.8 | 7.2             | 4.8 | 7.4             | 5.0 | 7.8             | 4.9 | 8.3             | 4.9 |
|                          | 95                | 35.0 | 6.4               | 4.7 | 6.5             | 4.8 | 6.9             | 4.7 | 7.1             | 4.8 | 7.3             | 5.0 | 7.7             | 4.9 | 8.1             | 4.8 |
|                          | 100               | 37.5 | 6.2               | 4.6 | 6.4             | 4.7 | 6.8             | 4.7 | 6.9             | 4.7 | 7.1             | 4.9 | 7.5             | 4.8 | 8.0             | 4.7 |
|                          | 104               | 40.0 | 6.1               | 4.5 | 6.3             | 4.7 | 6.7             | 4.6 | 6.8             | 4.7 | 7.0             | 4.8 | 7.3             | 4.7 | 7.8             | 4.7 |
| 63<br>(7.1)              | 110               | 43.0 | 6.0               | 4.5 | 6.1             | 4.6 | 6.5             | 4.5 | 6.6             | 4.6 | 6.8             | 4.8 | 7.2             | 4.7 | 7.6             | 4.6 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## 11. Cooling capacity with PUHY-RP200, 250YJM/PURY-RP200, 250YJM

PFFY-P-VLRMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.0               | 1.6 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 73                | 22.5 | 2.0               | 1.6 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 77                | 25.0 | 2.0               | 1.6 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.7 |
|                          | 82                | 27.5 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 86                | 30.0 | 1.9               | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.3             | 1.8 | 2.5             | 1.7 | 2.6             | 1.7 |
|                          | 91                | 32.5 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.8 | 2.3             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
|                          | 100               | 37.5 | 1.8               | 1.5 | 1.9             | 1.6 | 2.0             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.5             | 1.7 |
|                          | 104               | 40.0 | 1.8               | 1.5 | 1.9             | 1.6 | 2.0             | 1.6 | 2.1             | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.6 |
|                          | 110               | 43.0 | 1.8               | 1.5 | 1.8             | 1.6 | 2.0             | 1.6 | 2.0             | 1.7 | 2.0             | 1.7 | 2.2             | 1.6 | 2.4             | 1.6 |
| 25<br>(2.8)              | 68                | 20.0 | 2.5               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.0 |
|                          | 73                | 22.5 | 2.5               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.0 |
|                          | 77                | 25.0 | 2.5               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.0 | 3.5             | 2.0 |
|                          | 82                | 27.5 | 2.5               | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 3.0             | 2.1 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 86                | 30.0 | 2.5               | 1.8 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 91                | 32.5 | 2.4               | 1.8 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 1.9 |
|                          | 95                | 35.0 | 2.4               | 1.8 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.8             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 |
|                          | 100               | 37.5 | 2.4               | 1.8 | 2.5             | 1.9 | 2.6             | 1.8 | 2.7             | 2.0 | 2.8             | 1.9 | 3.0             | 1.9 | 3.1             | 1.9 |
|                          | 104               | 40.0 | 2.3               | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.9 | 2.7             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 |
|                          | 110               | 43.0 | 2.3               | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 3.0             | 1.8 |
| 32<br>(3.6)              | 68                | 20.0 | 3.2               | 2.4 | 3.4             | 2.5 | 3.7             | 2.5 | 3.9             | 2.7 | 4.0             | 2.6 | 4.2             | 2.6 | 4.6             | 2.6 |
|                          | 73                | 22.5 | 3.2               | 2.4 | 3.4             | 2.5 | 3.7             | 2.5 | 3.9             | 2.7 | 4.0             | 2.6 | 4.2             | 2.6 | 4.6             | 2.6 |
|                          | 77                | 25.0 | 3.2               | 2.4 | 3.4             | 2.5 | 3.7             | 2.5 | 3.9             | 2.7 | 4.0             | 2.6 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 82                | 27.5 | 3.2               | 2.4 | 3.4             | 2.5 | 3.6             | 2.5 | 3.8             | 2.6 | 3.9             | 2.6 | 4.1             | 2.6 | 4.4             | 2.5 |
|                          | 86                | 30.0 | 3.2               | 2.4 | 3.3             | 2.5 | 3.6             | 2.4 | 3.7             | 2.6 | 3.8             | 2.6 | 4.0             | 2.5 | 4.3             | 2.5 |
|                          | 91                | 32.5 | 3.1               | 2.3 | 3.3             | 2.4 | 3.5             | 2.4 | 3.7             | 2.6 | 3.7             | 2.5 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 95                | 35.0 | 3.1               | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.6             | 2.5 | 3.7             | 2.5 | 3.9             | 2.5 | 4.1             | 2.4 |
|                          | 100               | 37.5 | 3.0               | 2.3 | 3.2             | 2.4 | 3.3             | 2.3 | 3.5             | 2.5 | 3.6             | 2.5 | 3.8             | 2.5 | 4.0             | 2.4 |
|                          | 104               | 40.0 | 3.0               | 2.3 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.5 | 3.5             | 2.4 | 3.7             | 2.4 | 4.0             | 2.4 |
|                          | 110               | 43.0 | 2.9               | 2.2 | 3.0             | 2.3 | 3.2             | 2.3 | 3.3             | 2.4 | 3.3             | 2.4 | 3.6             | 2.4 | 3.9             | 2.3 |
| 40<br>(4.5)              | 68                | 20.0 | 4.0               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.9             | 3.4 | 5.0             | 3.3 | 5.3             | 3.3 | 5.7             | 3.3 |
|                          | 73                | 22.5 | 4.0               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.9             | 3.4 | 5.0             | 3.3 | 5.3             | 3.3 | 5.7             | 3.3 |
|                          | 77                | 25.0 | 4.0               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.9             | 3.4 | 5.0             | 3.3 | 5.3             | 3.3 | 5.6             | 3.2 |
|                          | 82                | 27.5 | 4.0               | 3.0 | 4.3             | 3.1 | 4.5             | 3.1 | 4.8             | 3.3 | 4.8             | 3.3 | 5.2             | 3.2 | 5.5             | 3.2 |
|                          | 86                | 30.0 | 4.0               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.7             | 3.3 | 4.8             | 3.2 | 5.0             | 3.2 | 5.4             | 3.2 |
|                          | 91                | 32.5 | 3.9               | 2.9 | 4.1             | 3.0 | 4.4             | 3.0 | 4.6             | 3.2 | 4.7             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 95                | 35.0 | 3.8               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.5             | 3.2 | 4.6             | 3.2 | 4.9             | 3.1 | 5.2             | 3.1 |
|                          | 100               | 37.5 | 3.8               | 2.9 | 4.0             | 3.0 | 4.2             | 2.9 | 4.4             | 3.2 | 4.5             | 3.1 | 4.8             | 3.1 | 5.0             | 3.0 |
|                          | 104               | 40.0 | 3.7               | 2.8 | 3.9             | 2.9 | 4.1             | 2.9 | 4.3             | 3.1 | 4.4             | 3.1 | 4.7             | 3.0 | 5.0             | 3.0 |
|                          | 110               | 43.0 | 3.6               | 2.8 | 3.8             | 2.9 | 4.0             | 2.9 | 4.2             | 3.1 | 4.2             | 3.0 | 4.5             | 3.0 | 4.8             | 3.0 |
| 50<br>(5.6)              | 68                | 20.0 | 5.0               | 3.8 | 5.3             | 4.0 | 5.8             | 4.0 | 6.0             | 4.3 | 6.2             | 4.2 | 6.6             | 4.2 | 7.1             | 4.1 |
|                          | 73                | 22.5 | 5.0               | 3.8 | 5.3             | 4.0 | 5.8             | 4.0 | 6.0             | 4.3 | 6.2             | 4.2 | 6.6             | 4.2 | 7.1             | 4.1 |
|                          | 77                | 25.0 | 5.0               | 3.8 | 5.3             | 4.0 | 5.8             | 4.0 | 6.0             | 4.3 | 6.2             | 4.2 | 6.6             | 4.2 | 6.9             | 4.1 |
|                          | 82                | 27.5 | 5.0               | 3.8 | 5.3             | 3.9 | 5.7             | 3.9 | 5.9             | 4.2 | 6.0             | 4.1 | 6.4             | 4.1 | 6.8             | 4.0 |
|                          | 86                | 30.0 | 4.9               | 3.7 | 5.2             | 3.9 | 5.5             | 3.9 | 5.8             | 4.2 | 5.9             | 4.1 | 6.3             | 4.0 | 6.7             | 4.0 |
|                          | 91                | 32.5 | 4.8               | 3.7 | 5.1             | 3.9 | 5.4             | 3.8 | 5.7             | 4.1 | 5.8             | 4.0 | 6.2             | 4.0 | 6.6             | 3.9 |
|                          | 95                | 35.0 | 4.8               | 3.7 | 5.0             | 3.8 | 5.3             | 3.8 | 5.6             | 4.1 | 5.7             | 4.0 | 6.0             | 4.0 | 6.4             | 3.9 |
|                          | 100               | 37.5 | 4.7               | 3.6 | 4.9             | 3.8 | 5.2             | 3.7 | 5.5             | 4.0 | 5.5             | 3.9 | 5.9             | 3.9 | 6.3             | 3.8 |
|                          | 104               | 40.0 | 4.6               | 3.6 | 4.8             | 3.7 | 5.1             | 3.7 | 5.4             | 4.0 | 5.5             | 3.9 | 5.8             | 3.9 | 6.2             | 3.8 |
|                          | 110               | 43.0 | 4.5               | 3.5 | 4.7             | 3.7 | 5.0             | 3.6 | 5.2             | 3.9 | 5.2             | 3.8 | 5.7             | 3.8 | 6.0             | 3.7 |
| 63<br>(7.1)              | 68                | 20.0 | 6.4               | 4.7 | 6.8             | 4.9 | 7.3             | 4.9 | 7.7             | 5.2 | 7.8             | 5.2 | 8.4             | 5.1 | 9.0             | 5.1 |
|                          | 73                | 22.5 | 6.4               | 4.7 | 6.8             | 4.9 | 7.3             | 4.9 | 7.7             | 5.2 | 7.8             | 5.2 | 8.4             | 5.1 | 9.0             | 5.1 |
|                          | 77                | 25.0 | 6.4               | 4.7 | 6.8             | 4.9 | 7.3             | 4.9 | 7.7             | 5.2 | 7.8             | 5.2 | 8.3             | 5.1 | 8.8             | 5.0 |
|                          | 82                | 27.5 | 6.3               | 4.6 | 6.7             | 4.9 | 7.2             | 4.9 | 7.5             | 5.2 | 7.6             | 5.1 | 8.1             | 5.0 | 8.7             | 5.0 |
|                          | 86                | 30.0 | 6.2               | 4.6 | 6.6             | 4.8 | 7.0             | 4.8 | 7.4             | 5.1 | 7.5             | 5.1 | 8.0             | 5.0 | 8.5             | 4.9 |
|                          | 91                | 32.5 | 6.1               | 4.5 | 6.5             | 4.8 | 6.9             | 4.7 | 7.2             | 5.0 | 7.3             | 5.0 | 7.8             | 4.9 | 8.3             | 4.9 |
|                          | 95                | 35.0 | 6.0               | 4.5 | 6.4             | 4.7 | 6.7             | 4.7 | 7.1             | 5.0 | 7.2             | 4.9 | 7.7             | 4.9 | 8.1             | 4.8 |
|                          | 100               | 37.5 | 6.0               | 4.5 | 6.2             | 4.7 | 6.6             | 4.6 | 6.9             | 4.9 | 7.0             | 4.8 | 7.5             | 4.8 | 8.0             | 4.7 |
|                          | 104               | 40.0 | 5.9               | 4.4 | 6.1             | 4.6 | 6.5             | 4.5 | 6.8             | 4.9 | 6.9             | 4.8 | 7.3             | 4.7 | 7.8             | 4.7 |
|                          | 110               | 43.0 | 5.8               | 4.4 | 6.0             | 4.5 | 6.3             | 4.5 | 6.6             | 4.8 | 6.6             | 4.7 | 7.2             | 4.7 | 7.6             | 4.6 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I2. Cooling capacity with PUHY-RP300-400Y(S)JM/PURY-RP300YJM

PFFY-P-VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.7 | 2.2             | 1.8 | 2.4             | 1.7 | 2.5             | 1.8 | 2.5             | 1.9 | 2.7             | 1.8 | 2.9             | 1.8 |
|                          | 73                | 22.5 | 2.1               | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 77                | 25.0 | 2.1               | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 82                | 27.5 | 2.1               | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 |
|                          | 86                | 30.0 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.7 |
|                          | 91                | 32.5 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 2.0               | 1.6 | 2.0             | 1.7 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
|                          | 100               | 37.5 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
|                          | 104               | 40.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.4             | 1.8 | 2.3             | 1.7 | 2.4             | 1.7 |
|                          | 110               | 43.0 | 1.8               | 1.6 | 1.8             | 1.6 | 2.0             | 1.6 | 2.0             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.6 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 2.0 | 2.8             | 2.1 | 3.0             | 2.1 | 3.1             | 2.1 | 3.2             | 2.2 | 3.4             | 2.2 | 3.6             | 2.1 |
|                          | 73                | 22.5 | 2.7               | 2.0 | 2.8             | 2.1 | 3.0             | 2.1 | 3.1             | 2.1 | 3.2             | 2.2 | 3.4             | 2.1 | 3.6             | 2.1 |
|                          | 77                | 25.0 | 2.7               | 2.0 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 82                | 27.5 | 2.6               | 2.0 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.0 | 3.1             | 2.1 | 3.2             | 2.1 | 3.4             | 2.1 |
|                          | 86                | 30.0 | 2.6               | 1.9 | 2.6             | 2.0 | 2.8             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.2             | 2.1 | 3.4             | 2.0 |
|                          | 91                | 32.5 | 2.5               | 1.9 | 2.6             | 2.0 | 2.8             | 2.0 | 2.9             | 2.0 | 2.9             | 2.1 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 95                | 35.0 | 2.5               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.2             | 2.0 |
|                          | 100               | 37.5 | 2.5               | 1.9 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 |
|                          | 104               | 40.0 | 2.4               | 1.9 | 2.4             | 1.9 | 2.6             | 1.9 | 2.7             | 1.9 | 3.0             | 2.1 | 2.9             | 2.0 | 3.1             | 1.9 |
|                          | 110               | 43.0 | 2.4               | 1.8 | 2.4             | 1.9 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 2.0 | 2.8             | 1.9 | 3.0             | 1.9 |
| 32<br>(3.6)              | 68                | 20.0 | 3.5               | 2.5 | 3.6             | 2.5 | 3.9             | 2.5 | 4.0             | 2.6 | 4.2             | 2.7 | 4.4             | 2.6 | 4.7             | 2.6 |
|                          | 73                | 22.5 | 3.5               | 2.5 | 3.6             | 2.5 | 3.8             | 2.5 | 4.0             | 2.5 | 4.1             | 2.6 | 4.3             | 2.6 | 4.6             | 2.5 |
|                          | 77                | 25.0 | 3.4               | 2.4 | 3.5             | 2.5 | 3.8             | 2.5 | 3.9             | 2.5 | 4.0             | 2.6 | 4.2             | 2.6 | 4.5             | 2.5 |
|                          | 82                | 27.5 | 3.4               | 2.4 | 3.5             | 2.5 | 3.7             | 2.4 | 3.8             | 2.5 | 3.9             | 2.6 | 4.2             | 2.5 | 4.4             | 2.5 |
|                          | 86                | 30.0 | 3.3               | 2.4 | 3.4             | 2.4 | 3.6             | 2.4 | 3.7             | 2.4 | 3.9             | 2.5 | 4.1             | 2.5 | 4.3             | 2.4 |
|                          | 91                | 32.5 | 3.3               | 2.3 | 3.3             | 2.4 | 3.5             | 2.4 | 3.7             | 2.4 | 3.8             | 2.5 | 4.0             | 2.5 | 4.2             | 2.4 |
|                          | 95                | 35.0 | 3.2               | 2.3 | 3.3             | 2.4 | 3.5             | 2.3 | 3.6             | 2.4 | 3.7             | 2.5 | 3.9             | 2.4 | 4.2             | 2.4 |
|                          | 100               | 37.5 | 3.2               | 2.3 | 3.2             | 2.3 | 3.4             | 2.3 | 3.5             | 2.3 | 3.6             | 2.4 | 3.9             | 2.4 | 4.1             | 2.4 |
|                          | 104               | 40.0 | 3.1               | 2.3 | 3.1             | 2.3 | 3.3             | 2.3 | 3.4             | 2.3 | 3.9             | 2.5 | 3.8             | 2.4 | 4.0             | 2.3 |
|                          | 110               | 43.0 | 3.0               | 2.2 | 3.0             | 2.2 | 3.2             | 2.2 | 3.3             | 2.3 | 3.4             | 2.3 | 3.7             | 2.3 | 3.9             | 2.3 |
| 40<br>(4.5)              | 68                | 20.0 | 4.4               | 3.0 | 4.5             | 3.1 | 4.9             | 3.1 | 5.0             | 3.2 | 5.2             | 3.3 | 5.5             | 3.2 | 5.9             | 3.2 |
|                          | 73                | 22.5 | 4.3               | 3.0 | 4.5             | 3.1 | 4.8             | 3.1 | 5.0             | 3.1 | 5.1             | 3.2 | 5.4             | 3.2 | 5.7             | 3.1 |
|                          | 77                | 25.0 | 4.3               | 3.0 | 4.4             | 3.1 | 4.7             | 3.1 | 4.9             | 3.1 | 5.0             | 3.2 | 5.3             | 3.2 | 5.6             | 3.1 |
|                          | 82                | 27.5 | 4.2               | 3.0 | 4.3             | 3.0 | 4.6             | 3.0 | 4.8             | 3.0 | 4.9             | 3.2 | 5.2             | 3.1 | 5.5             | 3.1 |
|                          | 86                | 30.0 | 4.1               | 2.9 | 4.2             | 3.0 | 4.5             | 3.0 | 4.7             | 3.0 | 4.8             | 3.1 | 5.1             | 3.1 | 5.4             | 3.0 |
|                          | 91                | 32.5 | 4.1               | 2.9 | 4.2             | 2.9 | 4.4             | 2.9 | 4.6             | 3.0 | 4.7             | 3.1 | 5.0             | 3.0 | 5.3             | 3.0 |
|                          | 95                | 35.0 | 4.0               | 2.9 | 4.1             | 2.9 | 4.3             | 2.9 | 4.5             | 2.9 | 4.6             | 3.0 | 4.9             | 3.0 | 5.2             | 2.9 |
|                          | 100               | 37.5 | 4.0               | 2.8 | 4.0             | 2.9 | 4.3             | 2.8 | 4.4             | 2.9 | 4.5             | 3.0 | 4.8             | 2.9 | 5.1             | 2.9 |
|                          | 104               | 40.0 | 3.9               | 2.8 | 3.9             | 2.8 | 4.2             | 2.8 | 4.3             | 2.8 | 4.9             | 3.1 | 4.7             | 2.9 | 5.0             | 2.8 |
|                          | 110               | 43.0 | 3.8               | 2.7 | 3.8             | 2.8 | 4.1             | 2.7 | 4.2             | 2.8 | 4.3             | 2.9 | 4.6             | 2.8 | 4.8             | 2.8 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I2. Cooling capacity with PUHY-RP300-400Y(S)JM/PURY-RP300YJM

PFFY-P-VLEM-E,VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.9 | 2.2             | 2.0 | 2.4             | 2.0 | 2.5             | 2.0 | 2.5             | 2.1 | 2.7             | 2.1 | 2.9             | 2.1 |
|                          | 73                | 22.5 | 2.1               | 1.9 | 2.2             | 2.0 | 2.3             | 2.0 | 2.4             | 2.0 | 2.5             | 2.1 | 2.6             | 2.1 | 2.8             | 2.0 |
|                          | 77                | 25.0 | 2.1               | 1.9 | 2.2             | 1.9 | 2.3             | 1.9 | 2.4             | 2.0 | 2.4             | 2.1 | 2.6             | 2.0 | 2.8             | 2.0 |
|                          | 82                | 27.5 | 2.1               | 1.9 | 2.1             | 1.9 | 2.3             | 1.9 | 2.3             | 2.0 | 2.4             | 2.1 | 2.5             | 2.0 | 2.7             | 2.0 |
|                          | 86                | 30.0 | 2.0               | 1.8 | 2.1             | 1.9 | 2.2             | 1.9 | 2.3             | 2.0 | 2.4             | 2.0 | 2.5             | 2.0 | 2.6             | 2.0 |
|                          | 91                | 32.5 | 2.0               | 1.8 | 2.0             | 1.9 | 2.2             | 1.9 | 2.2             | 1.9 | 2.3             | 2.0 | 2.4             | 2.0 | 2.6             | 2.0 |
|                          | 95                | 35.0 | 2.0               | 1.8 | 2.0             | 1.9 | 2.1             | 1.9 | 2.2             | 1.9 | 2.3             | 2.0 | 2.4             | 2.0 | 2.5             | 2.0 |
|                          | 100               | 37.5 | 1.9               | 1.8 | 1.9             | 1.9 | 2.1             | 1.8 | 2.1             | 1.9 | 2.2             | 2.0 | 2.4             | 2.0 | 2.5             | 1.9 |
|                          | 104               | 40.0 | 1.9               | 1.8 | 1.9             | 1.8 | 2.0             | 1.8 | 2.1             | 1.9 | 2.4             | 2.0 | 2.3             | 1.9 | 2.4             | 1.9 |
|                          | 110               | 43.0 | 1.8               | 1.8 | 1.8             | 1.8 | 2.0             | 1.8 | 2.0             | 1.9 | 2.1             | 1.9 | 2.2             | 1.9 | 2.4             | 1.9 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 2.2 | 2.8             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.2             | 2.4 | 3.4             | 2.3 | 3.6             | 2.3 |
|                          | 73                | 22.5 | 2.7               | 2.2 | 2.8             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.2             | 2.4 | 3.4             | 2.3 | 3.6             | 2.3 |
|                          | 77                | 25.0 | 2.7               | 2.1 | 2.7             | 2.2 | 2.9             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.3 |
|                          | 82                | 27.5 | 2.6               | 2.1 | 2.7             | 2.2 | 2.9             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.2             | 2.3 | 3.4             | 2.2 |
|                          | 86                | 30.0 | 2.6               | 2.1 | 2.6             | 2.2 | 2.8             | 2.1 | 2.9             | 2.2 | 3.0             | 2.3 | 3.2             | 2.3 | 3.4             | 2.2 |
|                          | 91                | 32.5 | 2.5               | 2.1 | 2.6             | 2.1 | 2.8             | 2.1 | 2.9             | 2.2 | 2.9             | 2.3 | 3.1             | 2.2 | 3.3             | 2.2 |
|                          | 95                | 35.0 | 2.5               | 2.1 | 2.5             | 2.1 | 2.7             | 2.1 | 2.8             | 2.2 | 2.9             | 2.2 | 3.1             | 2.2 | 3.2             | 2.2 |
|                          | 100               | 37.5 | 2.5               | 2.0 | 2.5             | 2.1 | 2.6             | 2.1 | 2.7             | 2.1 | 2.8             | 2.2 | 3.0             | 2.2 | 3.2             | 2.2 |
|                          | 104               | 40.0 | 2.4               | 2.0 | 2.4             | 2.1 | 2.6             | 2.1 | 2.7             | 2.1 | 3.0             | 2.3 | 2.9             | 2.2 | 3.1             | 2.1 |
|                          | 110               | 43.0 | 2.4               | 2.0 | 2.4             | 2.0 | 2.5             | 2.0 | 2.6             | 2.1 | 2.7             | 2.2 | 2.8             | 2.1 | 3.0             | 2.1 |
| 32<br>(3.6)              | 68                | 20.0 | 3.5               | 2.5 | 3.6             | 2.6 | 3.9             | 2.6 | 4.0             | 2.6 | 4.2             | 2.7 | 4.4             | 2.7 | 4.7             | 2.7 |
|                          | 73                | 22.5 | 3.5               | 2.5 | 3.6             | 2.6 | 3.8             | 2.6 | 4.0             | 2.6 | 4.1             | 2.7 | 4.3             | 2.7 | 4.6             | 2.6 |
|                          | 77                | 25.0 | 3.4               | 2.5 | 3.5             | 2.5 | 3.8             | 2.5 | 3.9             | 2.6 | 4.0             | 2.7 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 82                | 27.5 | 3.4               | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.8             | 2.5 | 3.9             | 2.6 | 4.2             | 2.6 | 4.4             | 2.5 |
|                          | 86                | 30.0 | 3.3               | 2.4 | 3.4             | 2.5 | 3.6             | 2.5 | 3.7             | 2.5 | 3.9             | 2.6 | 4.1             | 2.6 | 4.3             | 2.5 |
|                          | 91                | 32.5 | 3.3               | 2.4 | 3.3             | 2.5 | 3.5             | 2.4 | 3.7             | 2.5 | 3.8             | 2.6 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 95                | 35.0 | 3.2               | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.6             | 2.4 | 3.7             | 2.5 | 3.9             | 2.5 | 4.2             | 2.5 |
|                          | 100               | 37.5 | 3.2               | 2.4 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.4 | 3.6             | 2.5 | 3.9             | 2.5 | 4.1             | 2.4 |
|                          | 104               | 40.0 | 3.1               | 2.3 | 3.1             | 2.3 | 3.3             | 2.3 | 3.4             | 2.4 | 3.9             | 2.6 | 3.8             | 2.4 | 4.0             | 2.4 |
|                          | 110               | 43.0 | 3.0               | 2.3 | 3.0             | 2.3 | 3.2             | 2.3 | 3.3             | 2.3 | 3.4             | 2.4 | 3.7             | 2.4 | 3.9             | 2.4 |
| 40<br>(4.5)              | 68                | 20.0 | 4.4               | 3.2 | 4.5             | 3.3 | 4.9             | 3.3 | 5.0             | 3.3 | 5.2             | 3.4 | 5.5             | 3.4 | 5.9             | 3.3 |
|                          | 73                | 22.5 | 4.3               | 3.1 | 4.5             | 3.2 | 4.8             | 3.2 | 5.0             | 3.3 | 5.1             | 3.4 | 5.4             | 3.3 | 5.7             | 3.3 |
|                          | 77                | 25.0 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.9             | 3.2 | 5.0             | 3.3 | 5.3             | 3.3 | 5.6             | 3.2 |
|                          | 82                | 27.5 | 4.2               | 3.1 | 4.3             | 3.2 | 4.6             | 3.1 | 4.8             | 3.2 | 4.9             | 3.3 | 5.2             | 3.3 | 5.5             | 3.2 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.7             | 3.1 | 4.8             | 3.3 | 5.1             | 3.2 | 5.4             | 3.2 |
|                          | 91                | 32.5 | 4.1               | 3.0 | 4.2             | 3.1 | 4.4             | 3.1 | 4.6             | 3.1 | 4.7             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 95                | 35.0 | 4.0               | 3.0 | 4.1             | 3.0 | 4.3             | 3.0 | 4.5             | 3.1 | 4.6             | 3.2 | 4.9             | 3.1 | 5.2             | 3.1 |
|                          | 100               | 37.5 | 4.0               | 3.0 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.0 | 4.5             | 3.1 | 4.8             | 3.1 | 5.1             | 3.1 |
|                          | 104               | 40.0 | 3.9               | 2.9 | 3.9             | 3.0 | 4.2             | 2.9 | 4.3             | 3.0 | 4.9             | 3.3 | 4.7             | 3.1 | 5.0             | 3.0 |
|                          | 110               | 43.0 | 3.8               | 2.9 | 3.8             | 2.9 | 4.1             | 2.9 | 4.2             | 2.9 | 4.3             | 3.0 | 4.6             | 3.0 | 4.8             | 3.0 |
| 50<br>(5.6)              | 68                | 20.0 | 5.4               | 4.0 | 5.6             | 4.1 | 6.0             | 4.1 | 6.3             | 4.2 | 6.5             | 4.3 | 6.9             | 4.3 | 7.3             | 4.2 |
|                          | 73                | 22.5 | 5.4               | 4.0 | 5.6             | 4.1 | 6.0             | 4.1 | 6.2             | 4.1 | 6.4             | 4.3 | 6.7             | 4.2 | 7.1             | 4.2 |
|                          | 77                | 25.0 | 5.3               | 3.9 | 5.5             | 4.0 | 5.9             | 4.0 | 6.0             | 4.1 | 6.2             | 4.2 | 6.6             | 4.2 | 7.0             | 4.1 |
|                          | 82                | 27.5 | 5.2               | 3.9 | 5.4             | 4.0 | 5.7             | 4.0 | 5.9             | 4.0 | 6.1             | 4.2 | 6.5             | 4.1 | 6.9             | 4.1 |
|                          | 86                | 30.0 | 5.2               | 3.8 | 5.3             | 3.9 | 5.6             | 3.9 | 5.8             | 4.0 | 6.0             | 4.1 | 6.4             | 4.1 | 6.7             | 4.0 |
|                          | 91                | 32.5 | 5.1               | 3.8 | 5.2             | 3.9 | 5.5             | 3.9 | 5.7             | 3.9 | 5.9             | 4.1 | 6.2             | 4.0 | 6.6             | 4.0 |
|                          | 95                | 35.0 | 5.0               | 3.8 | 5.1             | 3.8 | 5.4             | 3.8 | 5.6             | 3.9 | 5.8             | 4.0 | 6.1             | 4.0 | 6.5             | 3.9 |
|                          | 100               | 37.5 | 4.9               | 3.7 | 5.0             | 3.8 | 5.3             | 3.8 | 5.5             | 3.8 | 5.7             | 4.0 | 6.0             | 3.9 | 6.3             | 3.9 |
|                          | 104               | 40.0 | 4.8               | 3.7 | 4.8             | 3.7 | 5.2             | 3.7 | 5.3             | 3.8 | 6.1             | 4.2 | 5.9             | 3.9 | 6.2             | 3.8 |
|                          | 110               | 43.0 | 4.7               | 3.6 | 4.7             | 3.7 | 5.0             | 3.7 | 5.2             | 3.7 | 5.3             | 3.9 | 5.7             | 3.8 | 6.0             | 3.8 |
| 63<br>(7.1)              | 68                | 20.0 | 6.9               | 4.9 | 7.1             | 5.1 | 7.7             | 5.1 | 8.0             | 5.2 | 8.2             | 5.4 | 8.7             | 5.3 | 9.2             | 5.2 |
|                          | 73                | 22.5 | 6.9               | 4.9 | 7.1             | 5.1 | 7.6             | 5.0 | 7.8             | 5.1 | 8.1             | 5.3 | 8.5             | 5.2 | 9.1             | 5.1 |
|                          | 77                | 25.0 | 6.8               | 4.9 | 7.0             | 5.0 | 7.4             | 5.0 | 7.7             | 5.0 | 7.9             | 5.2 | 8.4             | 5.1 | 8.9             | 5.1 |
|                          | 82                | 27.5 | 6.6               | 4.8 | 6.8             | 4.9 | 7.3             | 4.9 | 7.5             | 5.0 | 7.8             | 5.2 | 8.2             | 5.1 | 8.7             | 5.0 |
|                          | 86                | 30.0 | 6.5               | 4.8 | 6.7             | 4.9 | 7.1             | 4.8 | 7.4             | 4.9 | 7.6             | 5.1 | 8.1             | 5.0 | 8.5             | 4.9 |
|                          | 91                | 32.5 | 6.4               | 4.7 | 6.6             | 4.8 | 7.0             | 4.8 | 7.2             | 4.9 | 7.5             | 5.0 | 7.9             | 4.9 | 8.4             | 4.9 |
|                          | 95                | 35.0 | 6.3               | 4.7 | 6.4             | 4.7 | 6.8             | 4.7 | 7.1             | 4.8 | 7.3             | 5.0 | 7.7             | 4.9 | 8.2             | 4.8 |
|                          | 100               | 37.5 | 6.2               | 4.6 | 6.3             | 4.7 | 6.7             | 4.6 | 6.9             | 4.7 | 7.2             | 4.9 | 7.6             | 4.8 | 8.0             | 4.8 |
|                          | 104               | 40.0 | 6.1               | 4.6 | 6.1             | 4.6 | 6.6             | 4.6 | 6.8             | 4.7 | 7.7             | 5.1 | 7.4             | 4.8 | 7.8             | 4.7 |
|                          | 110               | 43.0 | 6.0               | 4.5 | 6.0             | 4.5 | 6.4             | 4.5 | 6.6             | 4.6 | 6.8             | 4.7 | 7.2             | 4.7 | 7.6             | 4.6 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I2. Cooling capacity with PUHY-RP300-400Y(S)JM/PURY-RP300YJM

PFFY-P-VLRMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.5             | 1.9 | 2.5             | 1.8 | 2.7             | 1.8 | 2.9             | 1.8 |
|                          | 73                | 22.5 | 2.1               | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 77                | 25.0 | 2.1               | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 82                | 27.5 | 2.1               | 1.6 | 2.1             | 1.7 | 2.3             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 86                | 30.0 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.7 |
|                          | 91                | 32.5 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.6 | 2.2             | 1.8 | 2.3             | 1.8 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 2.0               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
|                          | 100               | 37.5 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
|                          | 104               | 40.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.0             | 1.6 | 2.1             | 1.7 | 2.4             | 1.8 | 2.3             | 1.7 | 2.4             | 1.6 |
|                          | 110               | 43.0 | 1.8               | 1.5 | 1.8             | 1.6 | 2.0             | 1.6 | 2.0             | 1.7 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.6 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 2.0 | 2.8             | 2.0 | 3.0             | 2.0 | 3.1             | 2.1 | 3.2             | 2.1 | 3.4             | 2.1 | 3.6             | 2.1 |
|                          | 73                | 22.5 | 2.7               | 2.0 | 2.8             | 2.0 | 3.0             | 2.0 | 3.1             | 2.1 | 3.2             | 2.1 | 3.4             | 2.1 | 3.6             | 2.1 |
|                          | 77                | 25.0 | 2.7               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.0 |
|                          | 82                | 27.5 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 86                | 30.0 | 2.6               | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 91                | 32.5 | 2.5               | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 95                | 35.0 | 2.5               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.2             | 1.9 |
|                          | 100               | 37.5 | 2.5               | 1.8 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 2.0 | 2.8             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 |
|                          | 104               | 40.0 | 2.4               | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.9 | 3.0             | 2.1 | 2.9             | 1.9 | 3.1             | 1.9 |
|                          | 110               | 43.0 | 2.4               | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.9 | 2.7             | 1.9 | 2.8             | 1.9 | 3.0             | 1.8 |
| 32<br>(3.6)              | 68                | 20.0 | 3.5               | 2.5 | 3.6             | 2.6 | 3.9             | 2.6 | 4.0             | 2.7 | 4.2             | 2.7 | 4.4             | 2.7 | 4.7             | 2.6 |
|                          | 73                | 22.5 | 3.5               | 2.5 | 3.6             | 2.6 | 3.8             | 2.6 | 4.0             | 2.7 | 4.1             | 2.7 | 4.3             | 2.7 | 4.6             | 2.6 |
|                          | 77                | 25.0 | 3.4               | 2.5 | 3.5             | 2.5 | 3.8             | 2.5 | 3.9             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 82                | 27.5 | 3.4               | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.8             | 2.6 | 3.9             | 2.6 | 4.2             | 2.6 | 4.4             | 2.5 |
|                          | 86                | 30.0 | 3.3               | 2.4 | 3.4             | 2.5 | 3.6             | 2.5 | 3.7             | 2.6 | 3.9             | 2.6 | 4.1             | 2.6 | 4.3             | 2.5 |
|                          | 91                | 32.5 | 3.3               | 2.4 | 3.3             | 2.5 | 3.5             | 2.4 | 3.7             | 2.6 | 3.8             | 2.6 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 95                | 35.0 | 3.2               | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.6             | 2.5 | 3.7             | 2.5 | 3.9             | 2.5 | 4.2             | 2.5 |
|                          | 100               | 37.5 | 3.2               | 2.4 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.5 | 3.6             | 2.5 | 3.9             | 2.5 | 4.1             | 2.4 |
|                          | 104               | 40.0 | 3.1               | 2.3 | 3.1             | 2.3 | 3.3             | 2.3 | 3.4             | 2.5 | 3.9             | 2.6 | 3.8             | 2.4 | 4.0             | 2.4 |
|                          | 110               | 43.0 | 3.0               | 2.3 | 3.0             | 2.3 | 3.2             | 2.3 | 3.3             | 2.4 | 3.4             | 2.4 | 3.7             | 2.4 | 3.9             | 2.4 |
| 40<br>(4.5)              | 68                | 20.0 | 4.4               | 3.2 | 4.5             | 3.3 | 4.9             | 3.3 | 5.0             | 3.4 | 5.2             | 3.4 | 5.5             | 3.4 | 5.9             | 3.3 |
|                          | 73                | 22.5 | 4.3               | 3.1 | 4.5             | 3.2 | 4.8             | 3.2 | 5.0             | 3.4 | 5.1             | 3.4 | 5.4             | 3.3 | 5.7             | 3.3 |
|                          | 77                | 25.0 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.9             | 3.4 | 5.0             | 3.3 | 5.3             | 3.3 | 5.6             | 3.2 |
|                          | 82                | 27.5 | 4.2               | 3.1 | 4.3             | 3.2 | 4.6             | 3.1 | 4.8             | 3.3 | 4.9             | 3.3 | 5.2             | 3.3 | 5.5             | 3.2 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.7             | 3.3 | 4.8             | 3.3 | 5.1             | 3.2 | 5.4             | 3.2 |
|                          | 91                | 32.5 | 4.1               | 3.0 | 4.2             | 3.1 | 4.4             | 3.1 | 4.6             | 3.2 | 4.7             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 95                | 35.0 | 4.0               | 3.0 | 4.1             | 3.0 | 4.3             | 3.0 | 4.5             | 3.2 | 4.6             | 3.2 | 4.9             | 3.1 | 5.2             | 3.1 |
|                          | 100               | 37.5 | 4.0               | 3.0 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.2 | 4.5             | 3.1 | 4.8             | 3.1 | 5.1             | 3.1 |
|                          | 104               | 40.0 | 3.9               | 2.9 | 3.9             | 2.9 | 4.2             | 2.9 | 4.3             | 3.1 | 4.9             | 3.3 | 4.7             | 3.1 | 5.0             | 3.0 |
|                          | 110               | 43.0 | 3.8               | 2.9 | 3.8             | 2.9 | 4.1             | 2.9 | 4.2             | 3.1 | 4.3             | 3.0 | 4.6             | 3.0 | 4.8             | 3.0 |
| 50<br>(5.6)              | 68                | 20.0 | 5.4               | 4.0 | 5.6             | 4.1 | 6.0             | 4.1 | 6.3             | 4.4 | 6.5             | 4.3 | 6.9             | 4.3 | 7.3             | 4.2 |
|                          | 73                | 22.5 | 5.4               | 4.0 | 5.6             | 4.1 | 6.0             | 4.1 | 6.2             | 4.3 | 6.4             | 4.3 | 6.7             | 4.2 | 7.1             | 4.2 |
|                          | 77                | 25.0 | 5.3               | 3.9 | 5.5             | 4.0 | 5.9             | 4.0 | 6.0             | 4.3 | 6.2             | 4.2 | 6.6             | 4.2 | 7.0             | 4.1 |
|                          | 82                | 27.5 | 5.2               | 3.9 | 5.4             | 4.0 | 5.7             | 4.0 | 5.9             | 4.2 | 6.1             | 4.2 | 6.5             | 4.1 | 6.9             | 4.1 |
|                          | 86                | 30.0 | 5.2               | 3.8 | 5.3             | 3.9 | 5.6             | 3.9 | 5.8             | 4.2 | 6.0             | 4.1 | 6.4             | 4.1 | 6.7             | 4.0 |
|                          | 91                | 32.5 | 5.1               | 3.8 | 5.2             | 3.9 | 5.5             | 3.9 | 5.7             | 4.1 | 5.9             | 4.1 | 6.2             | 4.0 | 6.6             | 4.0 |
|                          | 95                | 35.0 | 5.0               | 3.8 | 5.1             | 3.8 | 5.4             | 3.8 | 5.6             | 4.1 | 5.8             | 4.0 | 6.1             | 4.0 | 6.5             | 3.9 |
|                          | 100               | 37.5 | 4.9               | 3.7 | 5.0             | 3.8 | 5.3             | 3.8 | 5.5             | 4.0 | 5.7             | 4.0 | 6.0             | 3.9 | 6.3             | 3.9 |
|                          | 104               | 40.0 | 4.8               | 3.7 | 4.8             | 3.7 | 5.2             | 3.7 | 5.3             | 4.0 | 6.1             | 4.2 | 5.9             | 3.9 | 6.2             | 3.8 |
|                          | 110               | 43.0 | 4.7               | 3.6 | 4.7             | 3.7 | 5.0             | 3.7 | 5.2             | 3.9 | 5.3             | 3.9 | 5.7             | 3.8 | 6.0             | 3.8 |
| 63<br>(7.1)              | 68                | 20.0 | 6.9               | 4.9 | 7.1             | 5.1 | 7.7             | 5.1 | 8.0             | 5.4 | 8.2             | 5.3 | 8.7             | 5.3 | 9.2             | 5.2 |
|                          | 73                | 22.5 | 6.9               | 4.9 | 7.1             | 5.1 | 7.6             | 5.0 | 7.8             | 5.3 | 8.1             | 5.3 | 8.5             | 5.2 | 9.1             | 5.1 |
|                          | 77                | 25.0 | 6.8               | 4.9 | 7.0             | 5.0 | 7.4             | 5.0 | 7.7             | 5.2 | 7.9             | 5.2 | 8.4             | 5.1 | 8.9             | 5.1 |
|                          | 82                | 27.5 | 6.6               | 4.8 | 6.8             | 4.9 | 7.3             | 4.9 | 7.5             | 5.2 | 7.8             | 5.2 | 8.2             | 5.1 | 8.7             | 5.0 |
|                          | 86                | 30.0 | 6.5               | 4.8 | 6.7             | 4.9 | 7.1             | 4.8 | 7.4             | 5.1 | 7.6             | 5.1 | 8.1             | 5.0 | 8.5             | 4.9 |
|                          | 91                | 32.5 | 6.4               | 4.7 | 6.6             | 4.8 | 7.0             | 4.8 | 7.2             | 5.1 | 7.5             | 5.0 | 7.9             | 4.9 | 8.4             | 4.9 |
|                          | 95                | 35.0 | 6.3               | 4.6 | 6.4             | 4.7 | 6.8             | 4.7 | 7.1             | 5.0 | 7.3             | 5.0 | 7.7             | 4.9 | 8.2             | 4.8 |
|                          | 100               | 37.5 | 6.2               | 4.6 | 6.3             | 4.7 | 6.7             | 4.6 | 6.9             | 4.9 | 7.2             | 4.9 | 7.6             | 4.8 | 8.0             | 4.8 |
|                          | 104               | 40.0 | 6.1               | 4.6 | 6.1             | 4.6 | 6.6             | 4.6 | 6.8             | 4.9 | 7.7             | 5.1 | 7.4             | 4.8 | 7.8             | 4.7 |
|                          | 110               | 43.0 | 6.0               | 4.5 | 6.0             | 4.5 | 6.4             | 4.5 | 6.6             | 4.8 | 6.8             | 4.7 | 7.2             | 4.7 | 7.6             | 4.6 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I3. Cooling capacity with PUHY-RP450-650YSJM

PFFY-P-VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          |                   |      | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.5             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 73                | 22.5 | 2.1               | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 |
|                          | 77                | 25.0 | 2.0               | 1.7 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 |
|                          | 82                | 27.5 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.7 |
|                          | 86                | 30.0 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 91                | 32.5 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.5             | 1.8 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 2.0               | 1.6 | 2.0             | 1.7 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.5             | 1.8 | 2.6             | 1.7 |
|                          | 100               | 37.5 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 104               | 40.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 110               | 43.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
| 25<br>(2.8)              | 68                | 20.0 | 2.6               | 2.0 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 73                | 22.5 | 2.6               | 2.0 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.0 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 77                | 25.0 | 2.6               | 2.0 | 2.7             | 2.0 | 2.9             | 2.0 | 2.9             | 2.0 | 3.1             | 2.1 | 3.2             | 2.1 | 3.5             | 2.1 |
|                          | 82                | 27.5 | 2.6               | 1.9 | 2.6             | 2.0 | 2.8             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.2             | 2.1 | 3.4             | 2.0 |
|                          | 86                | 30.0 | 2.5               | 1.9 | 2.6             | 2.0 | 2.8             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.2             | 2.1 | 3.4             | 2.0 |
|                          | 91                | 32.5 | 2.5               | 1.9 | 2.6             | 2.0 | 2.7             | 2.0 | 2.8             | 2.0 | 3.0             | 2.1 | 3.2             | 2.1 | 3.4             | 2.0 |
|                          | 95                | 35.0 | 2.5               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.1 | 3.1             | 2.1 | 3.3             | 2.0 |
|                          | 100               | 37.5 | 2.5               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.1 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 104               | 40.0 | 2.4               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.7             | 1.9 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 110               | 43.0 | 2.4               | 1.9 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 |
| 32<br>(3.6)              | 68                | 20.0 | 3.4               | 2.4 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.5 | 4.0             | 2.6 | 4.2             | 2.6 | 4.5             | 2.5 |
|                          | 73                | 22.5 | 3.4               | 2.4 | 3.5             | 2.5 | 3.7             | 2.4 | 3.8             | 2.5 | 4.0             | 2.6 | 4.2             | 2.5 | 4.5             | 2.5 |
|                          | 77                | 25.0 | 3.3               | 2.4 | 3.4             | 2.4 | 3.7             | 2.4 | 3.8             | 2.5 | 3.9             | 2.6 | 4.2             | 2.5 | 4.4             | 2.5 |
|                          | 82                | 27.5 | 3.3               | 2.4 | 3.4             | 2.4 | 3.6             | 2.4 | 3.7             | 2.4 | 3.9             | 2.5 | 4.1             | 2.5 | 4.3             | 2.4 |
|                          | 86                | 30.0 | 3.3               | 2.3 | 3.3             | 2.4 | 3.6             | 2.4 | 3.7             | 2.4 | 3.9             | 2.5 | 4.1             | 2.5 | 4.4             | 2.5 |
|                          | 91                | 32.5 | 3.2               | 2.3 | 3.3             | 2.4 | 3.5             | 2.4 | 3.6             | 2.4 | 3.8             | 2.5 | 4.1             | 2.5 | 4.3             | 2.4 |
|                          | 95                | 35.0 | 3.2               | 2.3 | 3.3             | 2.4 | 3.5             | 2.4 | 3.6             | 2.4 | 3.7             | 2.5 | 4.0             | 2.5 | 4.3             | 2.4 |
|                          | 100               | 37.5 | 3.2               | 2.3 | 3.2             | 2.3 | 3.5             | 2.3 | 3.5             | 2.3 | 3.7             | 2.5 | 4.0             | 2.4 | 4.2             | 2.4 |
|                          | 104               | 40.0 | 3.1               | 2.3 | 3.2             | 2.3 | 3.4             | 2.3 | 3.5             | 2.3 | 3.7             | 2.4 | 4.0             | 2.4 | 4.2             | 2.4 |
|                          | 110               | 43.0 | 3.1               | 2.3 | 3.2             | 2.3 | 3.4             | 2.3 | 3.5             | 2.3 | 3.6             | 2.4 | 3.9             | 2.4 | 4.2             | 2.4 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.0 | 4.4             | 3.1 | 4.7             | 3.0 | 4.8             | 3.1 | 5.0             | 3.2 | 5.3             | 3.2 | 5.7             | 3.1 |
|                          | 73                | 22.5 | 4.2               | 3.0 | 4.3             | 3.0 | 4.6             | 3.0 | 4.8             | 3.0 | 5.0             | 3.2 | 5.3             | 3.1 | 5.6             | 3.1 |
|                          | 77                | 25.0 | 4.2               | 2.9 | 4.3             | 3.0 | 4.6             | 3.0 | 4.7             | 3.0 | 4.9             | 3.1 | 5.2             | 3.1 | 5.6             | 3.1 |
|                          | 82                | 27.5 | 4.1               | 2.9 | 4.2             | 3.0 | 4.5             | 3.0 | 4.7             | 3.0 | 4.9             | 3.1 | 5.2             | 3.1 | 5.4             | 3.0 |
|                          | 86                | 30.0 | 4.1               | 2.9 | 4.2             | 3.0 | 4.5             | 3.0 | 4.6             | 3.0 | 4.8             | 3.1 | 5.1             | 3.1 | 5.4             | 3.0 |
|                          | 91                | 32.5 | 4.1               | 2.9 | 4.1             | 2.9 | 4.4             | 2.9 | 4.5             | 2.9 | 4.8             | 3.1 | 5.1             | 3.1 | 5.4             | 3.0 |
|                          | 95                | 35.0 | 4.0               | 2.9 | 4.1             | 2.9 | 4.4             | 2.9 | 4.5             | 2.9 | 4.7             | 3.0 | 5.0             | 3.0 | 5.4             | 3.0 |
|                          | 100               | 37.5 | 4.0               | 2.8 | 4.0             | 2.9 | 4.3             | 2.9 | 4.4             | 2.9 | 4.7             | 3.0 | 5.0             | 3.0 | 5.3             | 3.0 |
|                          | 104               | 40.0 | 3.9               | 2.8 | 4.0             | 2.9 | 4.3             | 2.9 | 4.4             | 2.9 | 4.6             | 3.0 | 5.0             | 3.0 | 5.3             | 3.0 |
|                          | 110               | 43.0 | 3.9               | 2.8 | 3.9             | 2.8 | 4.2             | 2.8 | 4.3             | 2.8 | 4.5             | 3.0 | 4.9             | 3.0 | 5.2             | 2.9 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## 13. Cooling capacity with PUHY-RP450-650YSJM

PFFY-P-VLEM-E,VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                  |     |                  |     |                  |     |                  |     |                  |     |                  |     |
|--------------------------|-------------------|------|-------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|
|                          |                   |      | 71 °FDB / 59°F WB |     | 73°FDB / 61°F WB |     | 77°FDB / 64°F WB |     | 81°FDB / 66°F WB |     | 82°FDB / 68°F WB |     | 86°FDB / 72°F WB |     | 90°FDB / 75°F WB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB  |     | 25°CDB / 18°CWB  |     | 27°CDB / 19°CWB  |     | 28°CDB / 20°CWB  |     | 30°CDB / 22°CWB  |     | 32°CDB / 24°CWB  |     |
|                          |                   |      | CA                | SHC | CA               | SHC | CA               | SHC | CA               | SHC | CA               | SHC | CA               | SHC | CA               | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.9 | 2.1              | 1.9 | 2.3              | 1.9 | 2.4              | 2.0 | 2.5              | 2.1 | 2.6              | 2.0 | 2.8              | 2.0 |
|                          | 73                | 22.5 | 2.1               | 1.9 | 2.1              | 1.9 | 2.3              | 1.9 | 2.3              | 2.0 | 2.4              | 2.1 | 2.6              | 2.0 | 2.7              | 2.0 |
|                          | 77                | 25.0 | 2.0               | 1.9 | 2.1              | 1.9 | 2.2              | 1.9 | 2.3              | 2.0 | 2.4              | 2.1 | 2.6              | 2.0 | 2.7              | 2.0 |
|                          | 82                | 27.5 | 2.0               | 1.8 | 2.1              | 1.9 | 2.2              | 1.9 | 2.3              | 2.0 | 2.4              | 2.0 | 2.5              | 2.0 | 2.6              | 2.0 |
|                          | 86                | 30.0 | 2.0               | 1.8 | 2.0              | 1.9 | 2.2              | 1.9 | 2.3              | 1.9 | 2.4              | 2.0 | 2.5              | 2.0 | 2.7              | 2.0 |
|                          | 91                | 32.5 | 2.0               | 1.8 | 2.0              | 1.9 | 2.2              | 1.9 | 2.2              | 1.9 | 2.3              | 2.0 | 2.5              | 2.0 | 2.6              | 2.0 |
|                          | 95                | 35.0 | 2.0               | 1.8 | 2.0              | 1.9 | 2.1              | 1.9 | 2.2              | 1.9 | 2.3              | 2.0 | 2.5              | 2.0 | 2.6              | 2.0 |
|                          | 100               | 37.5 | 1.9               | 1.8 | 2.0              | 1.9 | 2.1              | 1.9 | 2.2              | 1.9 | 2.3              | 2.0 | 2.4              | 2.0 | 2.6              | 2.0 |
|                          | 104               | 40.0 | 1.9               | 1.8 | 1.9              | 1.9 | 2.1              | 1.9 | 2.1              | 1.9 | 2.2              | 2.0 | 2.4              | 2.0 | 2.6              | 2.0 |
| 25<br>(2.8)              | 68                | 20.0 | 2.6               | 2.1 | 2.7              | 2.2 | 2.9              | 2.2 | 3.0              | 2.2 | 3.1              | 2.3 | 3.3              | 2.3 | 3.5              | 2.3 |
|                          | 73                | 22.5 | 2.6               | 2.1 | 2.7              | 2.2 | 2.9              | 2.2 | 3.0              | 2.2 | 3.1              | 2.3 | 3.3              | 2.3 | 3.5              | 2.3 |
|                          | 77                | 25.0 | 2.6               | 2.1 | 2.7              | 2.2 | 2.9              | 2.2 | 2.9              | 2.2 | 3.1              | 2.3 | 3.2              | 2.3 | 3.5              | 2.3 |
|                          | 82                | 27.5 | 2.6               | 2.1 | 2.6              | 2.2 | 2.8              | 2.2 | 2.9              | 2.2 | 3.0              | 2.3 | 3.2              | 2.3 | 3.4              | 2.2 |
|                          | 86                | 30.0 | 2.5               | 2.1 | 2.6              | 2.1 | 2.8              | 2.1 | 2.9              | 2.2 | 3.0              | 2.3 | 3.2              | 2.3 | 3.4              | 2.2 |
|                          | 91                | 32.5 | 2.5               | 2.1 | 2.6              | 2.1 | 2.7              | 2.1 | 2.8              | 2.2 | 3.0              | 2.3 | 3.2              | 2.2 | 3.4              | 2.2 |
|                          | 95                | 35.0 | 2.5               | 2.1 | 2.5              | 2.1 | 2.7              | 2.1 | 2.8              | 2.2 | 2.9              | 2.3 | 3.1              | 2.2 | 3.3              | 2.2 |
|                          | 100               | 37.5 | 2.5               | 2.0 | 2.5              | 2.1 | 2.7              | 2.1 | 2.8              | 2.1 | 2.9              | 2.2 | 3.1              | 2.2 | 3.3              | 2.2 |
|                          | 104               | 40.0 | 2.4               | 2.0 | 2.5              | 2.1 | 2.7              | 2.1 | 2.7              | 2.1 | 2.9              | 2.2 | 3.1              | 2.2 | 3.3              | 2.2 |
| 32<br>(3.6)              | 68                | 20.0 | 3.4               | 2.5 | 3.5              | 2.5 | 3.7              | 2.5 | 3.9              | 2.6 | 4.0              | 2.7 | 4.2              | 2.6 | 4.5              | 2.6 |
|                          | 73                | 22.5 | 3.4               | 2.5 | 3.5              | 2.5 | 3.7              | 2.5 | 3.8              | 2.5 | 4.0              | 2.6 | 4.2              | 2.6 | 4.5              | 2.6 |
|                          | 77                | 25.0 | 3.3               | 2.4 | 3.4              | 2.5 | 3.7              | 2.5 | 3.8              | 2.5 | 3.9              | 2.6 | 4.2              | 2.6 | 4.4              | 2.6 |
|                          | 82                | 27.5 | 3.3               | 2.4 | 3.4              | 2.5 | 3.6              | 2.5 | 3.7              | 2.5 | 3.9              | 2.6 | 4.1              | 2.6 | 4.3              | 2.5 |
|                          | 86                | 30.0 | 3.3               | 2.4 | 3.3              | 2.5 | 3.6              | 2.5 | 3.7              | 2.5 | 3.9              | 2.6 | 4.1              | 2.6 | 4.4              | 2.5 |
|                          | 91                | 32.5 | 3.2               | 2.4 | 3.3              | 2.4 | 3.5              | 2.4 | 3.6              | 2.5 | 3.8              | 2.6 | 4.1              | 2.6 | 4.3              | 2.5 |
|                          | 95                | 35.0 | 3.2               | 2.4 | 3.3              | 2.4 | 3.5              | 2.4 | 3.6              | 2.4 | 3.7              | 2.5 | 4.0              | 2.5 | 4.3              | 2.5 |
|                          | 100               | 37.5 | 3.2               | 2.4 | 3.2              | 2.4 | 3.5              | 2.4 | 3.5              | 2.4 | 3.7              | 2.5 | 4.0              | 2.5 | 4.2              | 2.5 |
|                          | 104               | 40.0 | 3.1               | 2.3 | 3.2              | 2.4 | 3.4              | 2.4 | 3.5              | 2.4 | 3.7              | 2.5 | 4.0              | 2.5 | 4.2              | 2.5 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.1 | 4.4              | 3.2 | 4.7              | 3.2 | 4.8              | 3.2 | 5.0              | 3.3 | 5.3              | 3.3 | 5.7              | 3.3 |
|                          | 73                | 22.5 | 4.2               | 3.1 | 4.3              | 3.2 | 4.6              | 3.1 | 4.8              | 3.2 | 5.0              | 3.3 | 5.3              | 3.3 | 5.6              | 3.2 |
|                          | 77                | 25.0 | 4.2               | 3.1 | 4.3              | 3.1 | 4.6              | 3.1 | 4.7              | 3.2 | 4.9              | 3.3 | 5.2              | 3.3 | 5.6              | 3.2 |
|                          | 82                | 27.5 | 4.1               | 3.0 | 4.2              | 3.1 | 4.5              | 3.1 | 4.7              | 3.1 | 4.9              | 3.3 | 5.2              | 3.2 | 5.4              | 3.2 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2              | 3.1 | 4.5              | 3.1 | 4.6              | 3.1 | 4.8              | 3.3 | 5.1              | 3.2 | 5.4              | 3.2 |
|                          | 91                | 32.5 | 4.1               | 3.0 | 4.1              | 3.1 | 4.4              | 3.0 | 4.5              | 3.1 | 4.8              | 3.2 | 5.1              | 3.2 | 5.4              | 3.2 |
|                          | 95                | 35.0 | 4.0               | 3.0 | 4.1              | 3.0 | 4.4              | 3.0 | 4.5              | 3.1 | 4.7              | 3.2 | 5.0              | 3.2 | 5.4              | 3.1 |
|                          | 100               | 37.5 | 4.0               | 3.0 | 4.0              | 3.0 | 4.3              | 3.0 | 4.4              | 3.0 | 4.7              | 3.2 | 5.0              | 3.2 | 5.3              | 3.1 |
|                          | 104               | 40.0 | 3.9               | 2.9 | 4.0              | 3.0 | 4.3              | 3.0 | 4.4              | 3.0 | 4.6              | 3.2 | 5.0              | 3.2 | 5.3              | 3.1 |
| 50<br>(5.6)              | 68                | 20.0 | 5.3               | 3.9 | 5.5              | 4.0 | 5.8              | 4.0 | 6.0              | 4.1 | 6.2              | 4.2 | 6.6              | 4.2 | 7.1              | 4.1 |
|                          | 73                | 22.5 | 5.3               | 3.9 | 5.4              | 4.0 | 5.8              | 4.0 | 5.9              | 4.0 | 6.2              | 4.2 | 6.6              | 4.2 | 7.0              | 4.1 |
|                          | 77                | 25.0 | 5.2               | 3.9 | 5.3              | 4.0 | 5.7              | 4.0 | 5.9              | 4.0 | 6.1              | 4.2 | 6.5              | 4.1 | 6.9              | 4.1 |
|                          | 82                | 27.5 | 5.2               | 3.8 | 5.3              | 3.9 | 5.7              | 3.9 | 5.8              | 4.0 | 6.0              | 4.2 | 6.4              | 4.1 | 6.7              | 4.0 |
|                          | 86                | 30.0 | 5.1               | 3.8 | 5.2              | 3.9 | 5.6              | 3.9 | 5.8              | 4.0 | 6.0              | 4.1 | 6.4              | 4.1 | 6.8              | 4.0 |
|                          | 91                | 32.5 | 5.0               | 3.8 | 5.2              | 3.9 | 5.5              | 3.9 | 5.7              | 3.9 | 5.9              | 4.1 | 6.3              | 4.1 | 6.7              | 4.0 |
|                          | 95                | 35.0 | 5.0               | 3.8 | 5.1              | 3.8 | 5.5              | 3.8 | 5.6              | 3.9 | 5.8              | 4.1 | 6.3              | 4.0 | 6.7              | 4.0 |
|                          | 100               | 37.5 | 4.9               | 3.7 | 5.0              | 3.8 | 5.4              | 3.8 | 5.5              | 3.9 | 5.8              | 4.0 | 6.2              | 4.0 | 6.6              | 4.0 |
|                          | 104               | 40.0 | 4.8               | 3.7 | 5.0              | 3.8 | 5.3              | 3.8 | 5.4              | 3.8 | 5.7              | 4.0 | 6.2              | 4.0 | 6.6              | 3.9 |
| 63<br>(7.1)              | 68                | 20.0 | 6.7               | 4.9 | 6.9              | 5.0 | 7.4              | 5.0 | 7.6              | 5.0 | 7.9              | 5.2 | 8.4              | 5.1 | 8.9              | 5.1 |
|                          | 73                | 22.5 | 6.7               | 4.8 | 6.9              | 4.9 | 7.3              | 4.9 | 7.5              | 5.0 | 7.8              | 5.2 | 8.3              | 5.1 | 8.8              | 5.1 |
|                          | 77                | 25.0 | 6.6               | 4.8 | 6.8              | 4.9 | 7.2              | 4.9 | 7.5              | 4.9 | 7.7              | 5.1 | 8.2              | 5.1 | 8.8              | 5.0 |
|                          | 82                | 27.5 | 6.5               | 4.8 | 6.7              | 4.9 | 7.2              | 4.9 | 7.4              | 4.9 | 7.7              | 5.1 | 8.2              | 5.1 | 8.5              | 4.9 |
|                          | 86                | 30.0 | 6.5               | 4.7 | 6.6              | 4.8 | 7.1              | 4.8 | 7.3              | 4.9 | 7.6              | 5.1 | 8.1              | 5.0 | 8.6              | 5.0 |
|                          | 91                | 32.5 | 6.4               | 4.7 | 6.5              | 4.8 | 7.0              | 4.8 | 7.2              | 4.8 | 7.5              | 5.1 | 8.0              | 5.0 | 8.5              | 4.9 |
|                          | 95                | 35.0 | 6.3               | 4.7 | 6.4              | 4.7 | 6.9              | 4.7 | 7.1              | 4.8 | 7.4              | 5.0 | 8.0              | 5.0 | 8.4              | 4.9 |
|                          | 100               | 37.5 | 6.2               | 4.6 | 6.4              | 4.7 | 6.8              | 4.7 | 7.0              | 4.7 | 7.3              | 5.0 | 7.8              | 4.9 | 8.4              | 4.9 |
|                          | 104               | 40.0 | 6.1               | 4.6 | 6.3              | 4.7 | 6.8              | 4.7 | 6.9              | 4.7 | 7.2              | 4.9 | 7.8              | 4.9 | 8.3              | 4.9 |
|                          | 110               | 43.0 | 6.1               | 4.5 | 6.2              | 4.6 | 6.7              | 4.6 | 6.8              | 4.7 | 7.2              | 4.9 | 7.7              | 4.9 | 8.2              | 4.8 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I3. Cooling capacity with PUHY-RP450-650YSJM

PPFY-P-VLRMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp. |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71 °FDB / 59°FWB |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | CA               | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1              | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 73                | 22.5 | 2.1              | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 |
|                          | 77                | 25.0 | 2.0              | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.7 |
|                          | 82                | 27.5 | 2.0              | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.7 |
|                          | 86                | 30.0 | 2.0              | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 91                | 32.5 | 2.0              | 1.6 | 2.0             | 1.7 | 2.2             | 1.6 | 2.2             | 1.8 | 2.3             | 1.8 | 2.5             | 1.7 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 2.0              | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.5             | 1.7 | 2.6             | 1.7 |
|                          | 100               | 37.5 | 1.9              | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 104               | 40.0 | 1.9              | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 110               | 43.0 | 1.9              | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
| 25<br>(2.8)              | 68                | 20.0 | 2.6              | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.0 |
|                          | 73                | 22.5 | 2.6              | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.0 |
|                          | 77                | 25.0 | 2.6              | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 2.9             | 2.1 | 3.1             | 2.1 | 3.2             | 2.0 | 3.5             | 2.0 |
|                          | 82                | 27.5 | 2.6              | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 86                | 30.0 | 2.5              | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 91                | 32.5 | 2.5              | 1.9 | 2.6             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 95                | 35.0 | 2.5              | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 100               | 37.5 | 2.5              | 1.8 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 104               | 40.0 | 2.4              | 1.8 | 2.5             | 1.9 | 2.7             | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 1.9 |
|                          | 110               | 43.0 | 2.4              | 1.8 | 2.5             | 1.9 | 2.6             | 1.8 | 2.7             | 1.9 | 2.8             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 |
| 32<br>(3.6)              | 68                | 20.0 | 3.4              | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 73                | 22.5 | 3.4              | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.8             | 2.6 | 4.0             | 2.6 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 77                | 25.0 | 3.3              | 2.4 | 3.4             | 2.5 | 3.7             | 2.5 | 3.8             | 2.6 | 3.9             | 2.6 | 4.2             | 2.6 | 4.4             | 2.6 |
|                          | 82                | 27.5 | 3.3              | 2.4 | 3.4             | 2.5 | 3.6             | 2.5 | 3.7             | 2.6 | 3.9             | 2.6 | 4.1             | 2.6 | 4.3             | 2.5 |
|                          | 86                | 30.0 | 3.3              | 2.4 | 3.3             | 2.5 | 3.6             | 2.5 | 3.7             | 2.6 | 3.9             | 2.6 | 4.1             | 2.6 | 4.4             | 2.5 |
|                          | 91                | 32.5 | 3.2              | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.6             | 2.6 | 3.8             | 2.6 | 4.1             | 2.6 | 4.3             | 2.5 |
|                          | 95                | 35.0 | 3.2              | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.6             | 2.5 | 3.7             | 2.5 | 4.0             | 2.5 | 4.3             | 2.5 |
|                          | 100               | 37.5 | 3.2              | 2.4 | 3.2             | 2.4 | 3.5             | 2.4 | 3.5             | 2.5 | 3.7             | 2.5 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 104               | 40.0 | 3.1              | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.5 | 3.7             | 2.5 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 110               | 43.0 | 3.1              | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.5 | 3.6             | 2.5 | 3.9             | 2.5 | 4.2             | 2.5 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3              | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.8             | 3.3 | 5.0             | 3.3 | 5.3             | 3.3 | 5.7             | 3.3 |
|                          | 73                | 22.5 | 4.2              | 3.1 | 4.3             | 3.2 | 4.6             | 3.1 | 4.8             | 3.3 | 5.0             | 3.3 | 5.3             | 3.3 | 5.6             | 3.2 |
|                          | 77                | 25.0 | 4.2              | 3.1 | 4.3             | 3.1 | 4.6             | 3.1 | 4.7             | 3.3 | 4.9             | 3.3 | 5.2             | 3.3 | 5.6             | 3.2 |
|                          | 82                | 27.5 | 4.1              | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.7             | 3.3 | 4.9             | 3.3 | 5.2             | 3.2 | 5.4             | 3.2 |
|                          | 86                | 30.0 | 4.1              | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.6             | 3.3 | 4.8             | 3.3 | 5.1             | 3.2 | 5.4             | 3.2 |
|                          | 91                | 32.5 | 4.1              | 3.0 | 4.1             | 3.1 | 4.4             | 3.0 | 4.5             | 3.2 | 4.8             | 3.2 | 5.1             | 3.2 | 5.4             | 3.2 |
|                          | 95                | 35.0 | 4.0              | 3.0 | 4.1             | 3.0 | 4.4             | 3.0 | 4.5             | 3.2 | 4.7             | 3.2 | 5.0             | 3.2 | 5.4             | 3.1 |
|                          | 100               | 37.5 | 4.0              | 3.0 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.2 | 4.7             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 104               | 40.0 | 3.9              | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.1 | 4.6             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 110               | 43.0 | 3.9              | 2.9 | 3.9             | 3.0 | 4.2             | 3.0 | 4.3             | 3.1 | 4.5             | 3.1 | 4.9             | 3.1 | 5.2             | 3.1 |
| 50<br>(5.6)              | 68                | 20.0 | 5.3              | 3.9 | 5.5             | 4.0 | 5.8             | 4.0 | 6.0             | 4.2 | 6.2             | 4.2 | 6.6             | 4.2 | 7.1             | 4.1 |
|                          | 73                | 22.5 | 5.3              | 3.9 | 5.4             | 4.0 | 5.8             | 4.0 | 5.9             | 4.2 | 6.2             | 4.2 | 6.6             | 4.2 | 7.0             | 4.1 |
|                          | 77                | 25.0 | 5.2              | 3.9 | 5.3             | 4.0 | 5.7             | 4.0 | 5.9             | 4.2 | 6.1             | 4.2 | 6.5             | 4.1 | 6.9             | 4.1 |
|                          | 82                | 27.5 | 5.2              | 3.8 | 5.3             | 3.9 | 5.7             | 3.9 | 5.8             | 4.2 | 6.0             | 4.2 | 6.4             | 4.1 | 6.7             | 4.0 |
|                          | 86                | 30.0 | 5.1              | 3.8 | 5.2             | 3.9 | 5.6             | 3.9 | 5.8             | 4.1 | 6.0             | 4.1 | 6.4             | 4.1 | 6.8             | 4.0 |
|                          | 91                | 32.5 | 5.0              | 3.8 | 5.2             | 3.9 | 5.5             | 3.9 | 5.7             | 4.1 | 5.9             | 4.1 | 6.3             | 4.1 | 6.7             | 4.0 |
|                          | 95                | 35.0 | 5.0              | 3.8 | 5.1             | 3.8 | 5.5             | 3.8 | 5.6             | 4.1 | 5.8             | 4.1 | 6.3             | 4.0 | 6.7             | 4.0 |
|                          | 100               | 37.5 | 4.9              | 3.7 | 5.0             | 3.8 | 5.4             | 3.8 | 5.5             | 4.0 | 5.8             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 |
|                          | 104               | 40.0 | 4.8              | 3.7 | 5.0             | 3.8 | 5.3             | 3.8 | 5.4             | 4.0 | 5.7             | 4.0 | 6.2             | 4.0 | 6.6             | 3.9 |
|                          | 110               | 43.0 | 4.8              | 3.7 | 4.9             | 3.8 | 5.3             | 3.8 | 5.4             | 4.0 | 5.7             | 4.0 | 6.0             | 4.0 | 6.5             | 3.9 |
| 63<br>(7.1)              | 68                | 20.0 | 6.7              | 4.8 | 6.9             | 5.0 | 7.4             | 5.0 | 7.6             | 5.2 | 7.9             | 5.2 | 8.4             | 5.1 | 8.9             | 5.1 |
|                          | 73                | 22.5 | 6.7              | 4.8 | 6.9             | 4.9 | 7.3             | 4.9 | 7.5             | 5.2 | 7.8             | 5.2 | 8.3             | 5.1 | 8.8             | 5.0 |
|                          | 77                | 25.0 | 6.6              | 4.8 | 6.8             | 4.9 | 7.2             | 4.9 | 7.5             | 5.2 | 7.7             | 5.1 | 8.2             | 5.1 | 8.8             | 5.0 |
|                          | 82                | 27.5 | 6.5              | 4.8 | 6.7             | 4.9 | 7.2             | 4.9 | 7.4             | 5.1 | 7.7             | 5.1 | 8.2             | 5.1 | 8.5             | 4.9 |
|                          | 86                | 30.0 | 6.5              | 4.7 | 6.6             | 4.8 | 7.1             | 4.8 | 7.3             | 5.1 | 7.6             | 5.1 | 8.1             | 5.0 | 8.6             | 5.0 |
|                          | 91                | 32.5 | 6.4              | 4.7 | 6.5             | 4.8 | 7.0             | 4.8 | 7.2             | 5.0 | 7.5             | 5.1 | 8.0             | 5.0 | 8.5             | 4.9 |
|                          | 95                | 35.0 | 6.3              | 4.6 | 6.4             | 4.7 | 6.9             | 4.7 | 7.1             | 5.0 | 7.4             | 5.0 | 8.0             | 5.0 | 8.4             | 4.9 |
|                          | 100               | 37.5 | 6.2              | 4.6 | 6.4             | 4.7 | 6.8             | 4.7 | 7.0             | 4.9 | 7.3             | 5.0 | 7.8             | 4.9 | 8.4             | 4.9 |
|                          | 104               | 40.0 | 6.1              | 4.6 | 6.3             | 4.7 | 6.8             | 4.7 | 6.9             | 4.9 | 7.2             | 4.9 | 7.8             | 4.9 | 8.3             | 4.9 |
|                          | 110               | 43.0 | 6.1              | 4.5 | 6.2             | 4.6 | 6.7             | 4.6 | 6.8             | 4.9 | 7.2             | 4.9 | 7.7             | 4.9 | 8.2             | 4.8 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I4. Cooling capacity with PUHY-RP700-800YSJM

PFFY-P-VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          |                   |      | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.4             | 1.8 | 2.5             | 1.9 | 2.7             | 1.8 | 2.9             | 1.8 |
|                          | 73                | 22.5 | 2.1               | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 | 2.8             | 1.8 |
|                          | 77                | 25.0 | 2.1               | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.4             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 82                | 27.5 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 |
|                          | 86                | 30.0 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 91                | 32.5 | 1.9               | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.5             | 1.8 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 100               | 37.5 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
|                          | 104               | 40.0 | 1.8               | 1.6 | 1.9             | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.5             | 1.7 |
|                          | 110               | 43.0 | 1.8               | 1.5 | 1.8             | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 2.0 | 2.8             | 2.1 | 3.0             | 2.1 | 3.1             | 2.1 | 3.2             | 2.2 | 3.4             | 2.2 | 3.7             | 2.1 |
|                          | 73                | 22.5 | 2.7               | 2.0 | 2.8             | 2.1 | 3.0             | 2.0 | 3.1             | 2.1 | 3.2             | 2.2 | 3.4             | 2.2 | 3.6             | 2.1 |
|                          | 77                | 25.0 | 2.6               | 2.0 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 82                | 27.5 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.0 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 86                | 30.0 | 2.5               | 1.9 | 2.6             | 2.0 | 2.8             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.2             | 2.1 | 3.4             | 2.1 |
|                          | 91                | 32.5 | 2.5               | 1.9 | 2.6             | 2.0 | 2.7             | 2.0 | 2.8             | 2.0 | 2.9             | 2.1 | 3.1             | 2.1 | 3.3             | 2.0 |
|                          | 95                | 35.0 | 2.4               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 100               | 37.5 | 2.4               | 1.9 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 2.0 | 2.8             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 |
|                          | 104               | 40.0 | 2.4               | 1.8 | 2.4             | 1.9 | 2.6             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 |
|                          | 110               | 43.0 | 2.3               | 1.8 | 2.4             | 1.9 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.1             | 1.9 |
| 32<br>(3.6)              | 68                | 20.0 | 3.5               | 2.5 | 3.6             | 2.5 | 3.9             | 2.5 | 4.0             | 2.6 | 4.1             | 2.7 | 4.4             | 2.6 | 4.7             | 2.6 |
|                          | 73                | 22.5 | 3.4               | 2.4 | 3.5             | 2.5 | 3.8             | 2.5 | 3.9             | 2.5 | 4.1             | 2.6 | 4.4             | 2.6 | 4.6             | 2.6 |
|                          | 77                | 25.0 | 3.4               | 2.4 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.5 | 4.0             | 2.6 | 4.2             | 2.6 | 4.5             | 2.5 |
|                          | 82                | 27.5 | 3.3               | 2.4 | 3.4             | 2.4 | 3.7             | 2.4 | 3.8             | 2.5 | 3.9             | 2.6 | 4.2             | 2.5 | 4.5             | 2.5 |
|                          | 86                | 30.0 | 3.2               | 2.3 | 3.4             | 2.4 | 3.6             | 2.4 | 3.7             | 2.4 | 3.9             | 2.5 | 4.1             | 2.5 | 4.4             | 2.5 |
|                          | 91                | 32.5 | 3.2               | 2.3 | 3.3             | 2.4 | 3.5             | 2.4 | 3.7             | 2.4 | 3.8             | 2.5 | 4.0             | 2.5 | 4.3             | 2.4 |
|                          | 95                | 35.0 | 3.1               | 2.3 | 3.2             | 2.3 | 3.5             | 2.3 | 3.6             | 2.4 | 3.7             | 2.5 | 4.0             | 2.4 | 4.2             | 2.4 |
|                          | 100               | 37.5 | 3.1               | 2.2 | 3.2             | 2.3 | 3.4             | 2.3 | 3.5             | 2.3 | 3.7             | 2.4 | 3.9             | 2.4 | 4.1             | 2.4 |
|                          | 104               | 40.0 | 3.0               | 2.2 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.3 | 3.6             | 2.4 | 3.8             | 2.4 | 4.1             | 2.3 |
|                          | 110               | 43.0 | 3.0               | 2.2 | 3.0             | 2.2 | 3.2             | 2.2 | 3.4             | 2.3 | 3.5             | 2.4 | 3.7             | 2.3 | 4.0             | 2.3 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.0 | 4.5             | 3.1 | 4.8             | 3.1 | 5.0             | 3.2 | 5.2             | 3.3 | 5.5             | 3.2 | 5.9             | 3.2 |
|                          | 73                | 22.5 | 4.3               | 3.0 | 4.4             | 3.1 | 4.7             | 3.1 | 4.9             | 3.1 | 5.1             | 3.2 | 5.4             | 3.2 | 5.8             | 3.2 |
|                          | 77                | 25.0 | 4.2               | 3.0 | 4.4             | 3.0 | 4.7             | 3.0 | 4.8             | 3.1 | 5.0             | 3.2 | 5.3             | 3.2 | 5.7             | 3.1 |
|                          | 82                | 27.5 | 4.1               | 2.9 | 4.3             | 3.0 | 4.6             | 3.0 | 4.7             | 3.0 | 4.9             | 3.1 | 5.2             | 3.1 | 5.6             | 3.1 |
|                          | 86                | 30.0 | 4.1               | 2.9 | 4.2             | 3.0 | 4.5             | 3.0 | 4.7             | 3.0 | 4.8             | 3.1 | 5.1             | 3.1 | 5.5             | 3.0 |
|                          | 91                | 32.5 | 4.0               | 2.8 | 4.1             | 2.9 | 4.4             | 2.9 | 4.6             | 3.0 | 4.7             | 3.1 | 5.0             | 3.0 | 5.4             | 3.0 |
|                          | 95                | 35.0 | 3.9               | 2.8 | 4.1             | 2.9 | 4.3             | 2.9 | 4.5             | 2.9 | 4.6             | 3.0 | 5.0             | 3.0 | 5.3             | 3.0 |
|                          | 100               | 37.5 | 3.8               | 2.8 | 4.0             | 2.9 | 4.3             | 2.8 | 4.4             | 2.9 | 4.6             | 3.0 | 4.9             | 3.0 | 5.2             | 2.9 |
|                          | 104               | 40.0 | 3.8               | 2.7 | 3.9             | 2.8 | 4.2             | 2.8 | 4.3             | 2.8 | 4.5             | 3.0 | 4.8             | 2.9 | 5.1             | 2.9 |
|                          | 110               | 43.0 | 3.7               | 2.7 | 3.8             | 2.8 | 4.1             | 2.7 | 4.2             | 2.8 | 4.4             | 2.9 | 4.7             | 2.9 | 5.0             | 2.8 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## 14. Cooling capacity with PUHY-RP700-800YSJM

PFFY-P-VLEM-E,VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.9 | 2.2             | 2.0 | 2.4             | 2.0 | 2.4             | 2.0 | 2.5             | 2.1 | 2.7             | 2.1 | 2.9             | 2.1 |
|                          | 73                | 22.5 | 2.1               | 1.9 | 2.2             | 2.0 | 2.3             | 1.9 | 2.4             | 2.0 | 2.5             | 2.1 | 2.7             | 2.1 | 2.8             | 2.0 |
|                          | 77                | 25.0 | 2.1               | 1.9 | 2.1             | 1.9 | 2.3             | 1.9 | 2.4             | 2.0 | 2.4             | 2.1 | 2.6             | 2.0 | 2.8             | 2.0 |
|                          | 82                | 27.5 | 2.0               | 1.8 | 2.1             | 1.9 | 2.2             | 1.9 | 2.3             | 2.0 | 2.4             | 2.1 | 2.6             | 2.0 | 2.7             | 2.0 |
|                          | 86                | 30.0 | 2.0               | 1.8 | 2.1             | 1.9 | 2.2             | 1.9 | 2.3             | 1.9 | 2.4             | 2.0 | 2.5             | 2.0 | 2.7             | 2.0 |
|                          | 91                | 32.5 | 1.9               | 1.8 | 2.0             | 1.9 | 2.2             | 1.9 | 2.2             | 1.9 | 2.3             | 2.0 | 2.5             | 2.0 | 2.6             | 2.0 |
|                          | 95                | 35.0 | 1.9               | 1.8 | 2.0             | 1.9 | 2.1             | 1.9 | 2.2             | 1.9 | 2.3             | 2.0 | 2.4             | 2.0 | 2.6             | 2.0 |
|                          | 100               | 37.5 | 1.9               | 1.8 | 2.0             | 1.9 | 2.1             | 1.8 | 2.2             | 1.9 | 2.2             | 2.0 | 2.4             | 2.0 | 2.5             | 1.9 |
|                          | 104               | 40.0 | 1.8               | 1.8 | 1.9             | 1.8 | 2.0             | 1.8 | 2.1             | 1.9 | 2.2             | 2.0 | 2.3             | 2.0 | 2.5             | 1.9 |
|                          | 110               | 43.0 | 1.8               | 1.8 | 1.8             | 1.8 | 2.0             | 1.8 | 2.1             | 1.9 | 2.1             | 2.0 | 2.3             | 1.9 | 2.4             | 1.9 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 2.2 | 2.8             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.7             | 2.3 |
|                          | 73                | 22.5 | 2.7               | 2.1 | 2.8             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.2             | 2.4 | 3.4             | 2.3 | 3.6             | 2.3 |
|                          | 77                | 25.0 | 2.6               | 2.1 | 2.7             | 2.2 | 2.9             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.3 |
|                          | 82                | 27.5 | 2.6               | 2.1 | 2.7             | 2.2 | 2.9             | 2.2 | 3.0             | 2.2 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.3 |
|                          | 86                | 30.0 | 2.5               | 2.1 | 2.6             | 2.2 | 2.8             | 2.1 | 2.9             | 2.2 | 3.0             | 2.3 | 3.2             | 2.3 | 3.4             | 2.2 |
|                          | 91                | 32.5 | 2.5               | 2.1 | 2.6             | 2.1 | 2.7             | 2.1 | 2.8             | 2.2 | 2.9             | 2.3 | 3.1             | 2.2 | 3.3             | 2.2 |
|                          | 95                | 35.0 | 2.4               | 2.0 | 2.5             | 2.1 | 2.7             | 2.1 | 2.8             | 2.2 | 2.9             | 2.2 | 3.1             | 2.2 | 3.3             | 2.2 |
|                          | 100               | 37.5 | 2.4               | 2.0 | 2.5             | 2.1 | 2.6             | 2.1 | 2.7             | 2.1 | 2.8             | 2.2 | 3.0             | 2.2 | 3.2             | 2.2 |
|                          | 104               | 40.0 | 2.4               | 2.0 | 2.4             | 2.1 | 2.6             | 2.1 | 2.7             | 2.1 | 2.8             | 2.2 | 3.0             | 2.2 | 3.2             | 2.1 |
|                          | 110               | 43.0 | 2.3               | 2.0 | 2.4             | 2.0 | 2.5             | 2.0 | 2.6             | 2.1 | 2.7             | 2.2 | 2.9             | 2.2 | 3.1             | 2.1 |
| 32<br>(3.6)              | 68                | 20.0 | 3.5               | 2.5 | 3.6             | 2.6 | 3.9             | 2.6 | 4.0             | 2.6 | 4.1             | 2.7 | 4.4             | 2.7 | 4.7             | 2.7 |
|                          | 73                | 22.5 | 3.4               | 2.5 | 3.5             | 2.6 | 3.8             | 2.5 | 3.9             | 2.6 | 4.1             | 2.7 | 4.4             | 2.7 | 4.6             | 2.6 |
|                          | 77                | 25.0 | 3.4               | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.6 | 4.0             | 2.7 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 82                | 27.5 | 3.3               | 2.4 | 3.4             | 2.5 | 3.7             | 2.5 | 3.8             | 2.5 | 3.9             | 2.6 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 86                | 30.0 | 3.2               | 2.4 | 3.4             | 2.5 | 3.6             | 2.5 | 3.7             | 2.5 | 3.9             | 2.6 | 4.1             | 2.6 | 4.4             | 2.5 |
|                          | 91                | 32.5 | 3.2               | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.7             | 2.5 | 3.8             | 2.6 | 4.0             | 2.5 | 4.3             | 2.5 |
|                          | 95                | 35.0 | 3.1               | 2.3 | 3.2             | 2.4 | 3.5             | 2.4 | 3.6             | 2.4 | 3.7             | 2.5 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 100               | 37.5 | 3.1               | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.4 | 3.7             | 2.5 | 3.9             | 2.5 | 4.1             | 2.5 |
|                          | 104               | 40.0 | 3.0               | 2.3 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.4 | 3.6             | 2.5 | 3.8             | 2.5 | 4.1             | 2.4 |
|                          | 110               | 43.0 | 3.0               | 2.2 | 3.0             | 2.3 | 3.2             | 2.3 | 3.4             | 2.3 | 3.5             | 2.4 | 3.7             | 2.4 | 4.0             | 2.4 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.1 | 4.5             | 3.2 | 4.8             | 3.2 | 5.0             | 3.3 | 5.2             | 3.4 | 5.5             | 3.4 | 5.9             | 3.3 |
|                          | 73                | 22.5 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.9             | 3.2 | 5.1             | 3.4 | 5.4             | 3.4 | 5.8             | 3.3 |
|                          | 77                | 25.0 | 4.2               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.8             | 3.2 | 5.0             | 3.3 | 5.3             | 3.3 | 5.7             | 3.3 |
|                          | 82                | 27.5 | 4.1               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.7             | 3.2 | 4.9             | 3.3 | 5.2             | 3.3 | 5.6             | 3.2 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.7             | 3.1 | 4.8             | 3.3 | 5.1             | 3.2 | 5.5             | 3.2 |
|                          | 91                | 32.5 | 4.0               | 3.0 | 4.1             | 3.1 | 4.4             | 3.0 | 4.6             | 3.1 | 4.7             | 3.2 | 5.0             | 3.2 | 5.4             | 3.2 |
|                          | 95                | 35.0 | 3.9               | 2.9 | 4.1             | 3.0 | 4.3             | 3.0 | 4.5             | 3.1 | 4.6             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 100               | 37.5 | 3.8               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.0 | 4.6             | 3.2 | 4.9             | 3.1 | 5.2             | 3.1 |
|                          | 104               | 40.0 | 3.8               | 2.9 | 3.9             | 2.9 | 4.2             | 2.9 | 4.3             | 3.0 | 4.5             | 3.1 | 4.8             | 3.1 | 5.1             | 3.0 |
|                          | 110               | 43.0 | 3.7               | 2.8 | 3.8             | 2.9 | 4.1             | 2.9 | 4.2             | 2.9 | 4.4             | 3.1 | 4.7             | 3.0 | 5.0             | 3.0 |
| 50<br>(5.6)              | 68                | 20.0 | 5.4               | 4.0 | 5.6             | 4.1 | 6.0             | 4.1 | 6.2             | 4.2 | 6.4             | 4.3 | 6.9             | 4.3 | 7.3             | 4.2 |
|                          | 73                | 22.5 | 5.3               | 3.9 | 5.5             | 4.1 | 5.9             | 4.0 | 6.1             | 4.1 | 6.3             | 4.3 | 6.8             | 4.2 | 7.2             | 4.2 |
|                          | 77                | 25.0 | 5.3               | 3.9 | 5.4             | 4.0 | 5.8             | 4.0 | 6.0             | 4.1 | 6.2             | 4.2 | 6.6             | 4.2 | 7.1             | 4.1 |
|                          | 82                | 27.5 | 5.2               | 3.8 | 5.3             | 4.0 | 5.7             | 4.0 | 5.9             | 4.0 | 6.1             | 4.2 | 6.5             | 4.1 | 6.9             | 4.1 |
|                          | 86                | 30.0 | 5.0               | 3.8 | 5.2             | 3.9 | 5.6             | 3.9 | 5.8             | 4.0 | 6.0             | 4.1 | 6.4             | 4.1 | 6.8             | 4.0 |
|                          | 91                | 32.5 | 5.0               | 3.8 | 5.1             | 3.9 | 5.5             | 3.9 | 5.7             | 3.9 | 5.9             | 4.1 | 6.3             | 4.0 | 6.7             | 4.0 |
|                          | 95                | 35.0 | 4.9               | 3.7 | 5.0             | 3.8 | 5.4             | 3.8 | 5.6             | 3.9 | 5.8             | 4.0 | 6.2             | 4.0 | 6.6             | 3.9 |
|                          | 100               | 37.5 | 4.8               | 3.7 | 5.0             | 3.8 | 5.3             | 3.8 | 5.5             | 3.8 | 5.7             | 4.0 | 6.0             | 4.0 | 6.4             | 3.9 |
|                          | 104               | 40.0 | 4.7               | 3.6 | 4.8             | 3.7 | 5.2             | 3.7 | 5.4             | 3.8 | 5.6             | 4.0 | 5.9             | 3.9 | 6.3             | 3.9 |
|                          | 110               | 43.0 | 4.6               | 3.6 | 4.7             | 3.7 | 5.0             | 3.7 | 5.2             | 3.7 | 5.4             | 3.9 | 5.8             | 3.9 | 6.2             | 3.8 |
| 63<br>(7.1)              | 68                | 20.0 | 6.9               | 4.9 | 7.1             | 5.1 | 7.6             | 5.1 | 7.9             | 5.1 | 8.2             | 5.3 | 8.7             | 5.3 | 9.3             | 5.2 |
|                          | 73                | 22.5 | 6.7               | 4.9 | 7.0             | 5.0 | 7.5             | 5.0 | 7.8             | 5.1 | 8.0             | 5.3 | 8.6             | 5.2 | 9.1             | 5.1 |
|                          | 77                | 25.0 | 6.7               | 4.8 | 6.9             | 5.0 | 7.4             | 5.0 | 7.6             | 5.0 | 7.9             | 5.2 | 8.4             | 5.1 | 8.9             | 5.1 |
|                          | 82                | 27.5 | 6.5               | 4.8 | 6.7             | 4.9 | 7.2             | 4.9 | 7.5             | 5.0 | 7.7             | 5.1 | 8.3             | 5.1 | 8.8             | 5.0 |
|                          | 86                | 30.0 | 6.4               | 4.7 | 6.6             | 4.8 | 7.1             | 4.8 | 7.3             | 4.9 | 7.6             | 5.1 | 8.1             | 5.0 | 8.7             | 5.0 |
|                          | 91                | 32.5 | 6.3               | 4.6 | 6.5             | 4.8 | 7.0             | 4.8 | 7.2             | 4.8 | 7.5             | 5.0 | 8.0             | 5.0 | 8.5             | 4.9 |
|                          | 95                | 35.0 | 6.2               | 4.6 | 6.4             | 4.7 | 6.8             | 4.7 | 7.1             | 4.8 | 7.3             | 5.0 | 7.8             | 4.9 | 8.3             | 4.9 |
|                          | 100               | 37.5 | 6.1               | 4.5 | 6.3             | 4.7 | 6.7             | 4.6 | 7.0             | 4.7 | 7.2             | 4.9 | 7.7             | 4.9 | 8.2             | 4.8 |
|                          | 104               | 40.0 | 6.0               | 4.5 | 6.1             | 4.6 | 6.6             | 4.6 | 6.8             | 4.7 | 7.1             | 4.9 | 7.5             | 4.8 | 8.0             | 4.7 |
|                          | 110               | 43.0 | 5.8               | 4.4 | 6.0             | 4.5 | 6.4             | 4.5 | 6.6             | 4.6 | 6.9             | 4.8 | 7.3             | 4.7 | 7.8             | 4.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## 14. Cooling capacity with PUHY-RP700-800YSJM

PFFY-P-VLRMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 | 2.9             | 1.8 |
|                          | 73                | 22.5 | 2.1               | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.8 | 2.8             | 1.8 |
|                          | 77                | 25.0 | 2.1               | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 82                | 27.5 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.7 |
|                          | 86                | 30.0 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 91                | 32.5 | 1.9               | 1.6 | 2.0             | 1.7 | 2.2             | 1.6 | 2.2             | 1.8 | 2.3             | 1.8 | 2.5             | 1.7 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 100               | 37.5 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
|                          | 104               | 40.0 | 1.8               | 1.5 | 1.9             | 1.6 | 2.0             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.7 | 2.5             | 1.7 |
|                          | 110               | 43.0 | 1.8               | 1.5 | 1.8             | 1.6 | 2.0             | 1.6 | 2.1             | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.6 |
| 25<br>(2.8)              | 68                | 20.0 | 2.7               | 2.0 | 2.8             | 2.0 | 3.0             | 2.0 | 3.1             | 2.1 | 3.2             | 2.1 | 3.4             | 2.1 | 3.7             | 2.1 |
|                          | 73                | 22.5 | 2.7               | 1.9 | 2.8             | 2.0 | 3.0             | 2.0 | 3.1             | 2.1 | 3.2             | 2.1 | 3.4             | 2.1 | 3.6             | 2.1 |
|                          | 77                | 25.0 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.0 |
|                          | 82                | 27.5 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.0 | 3.5             | 2.0 |
|                          | 86                | 30.0 | 2.5               | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 91                | 32.5 | 2.5               | 1.8 | 2.6             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 95                | 35.0 | 2.4               | 1.8 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 1.9 |
|                          | 100               | 37.5 | 2.4               | 1.8 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 2.0 | 2.8             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 |
|                          | 104               | 40.0 | 2.4               | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.9 | 2.8             | 1.9 | 3.0             | 1.9 | 3.2             | 1.9 |
|                          | 110               | 43.0 | 2.3               | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.6             | 1.9 | 2.7             | 1.9 | 2.9             | 1.9 | 3.1             | 1.9 |
| 32<br>(3.6)              | 68                | 20.0 | 3.5               | 2.5 | 3.6             | 2.6 | 3.9             | 2.6 | 4.0             | 2.7 | 4.1             | 2.7 | 4.4             | 2.7 | 4.7             | 2.7 |
|                          | 73                | 22.5 | 3.4               | 2.5 | 3.5             | 2.6 | 3.8             | 2.5 | 3.9             | 2.7 | 4.1             | 2.7 | 4.4             | 2.7 | 4.6             | 2.6 |
|                          | 77                | 25.0 | 3.4               | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 82                | 27.5 | 3.3               | 2.4 | 3.4             | 2.5 | 3.7             | 2.5 | 3.8             | 2.6 | 3.9             | 2.6 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 86                | 30.0 | 3.2               | 2.4 | 3.4             | 2.5 | 3.6             | 2.5 | 3.7             | 2.6 | 3.9             | 2.6 | 4.1             | 2.6 | 4.4             | 2.5 |
|                          | 91                | 32.5 | 3.2               | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.7             | 2.6 | 3.8             | 2.6 | 4.0             | 2.5 | 4.3             | 2.5 |
|                          | 95                | 35.0 | 3.1               | 2.3 | 3.2             | 2.4 | 3.5             | 2.4 | 3.6             | 2.5 | 3.7             | 2.5 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 100               | 37.5 | 3.1               | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.5 | 4.1             | 2.4 |
|                          | 104               | 40.0 | 3.0               | 2.3 | 3.1             | 2.3 | 3.3             | 2.3 | 3.5             | 2.5 | 3.6             | 2.5 | 3.8             | 2.5 | 4.1             | 2.4 |
|                          | 110               | 43.0 | 3.0               | 2.2 | 3.0             | 2.3 | 3.2             | 2.3 | 3.4             | 2.4 | 3.5             | 2.4 | 3.7             | 2.4 | 4.0             | 2.4 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.1 | 4.5             | 3.2 | 4.8             | 3.2 | 5.0             | 3.4 | 5.2             | 3.4 | 5.5             | 3.4 | 5.9             | 3.3 |
|                          | 73                | 22.5 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.9             | 3.4 | 5.1             | 3.4 | 5.4             | 3.4 | 5.8             | 3.3 |
|                          | 77                | 25.0 | 4.2               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.8             | 3.4 | 5.0             | 3.3 | 5.3             | 3.3 | 5.7             | 3.3 |
|                          | 82                | 27.5 | 4.1               | 3.0 | 4.3             | 3.1 | 4.6             | 3.1 | 4.7             | 3.3 | 4.9             | 3.3 | 5.2             | 3.3 | 5.6             | 3.2 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.7             | 3.3 | 4.8             | 3.3 | 5.1             | 3.2 | 5.5             | 3.2 |
|                          | 91                | 32.5 | 4.0               | 3.0 | 4.1             | 3.1 | 4.4             | 3.0 | 4.6             | 3.2 | 4.7             | 3.2 | 5.0             | 3.2 | 5.4             | 3.2 |
|                          | 95                | 35.0 | 3.9               | 2.9 | 4.1             | 3.0 | 4.3             | 3.0 | 4.5             | 3.2 | 4.6             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 100               | 37.5 | 3.8               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.2 | 4.6             | 3.2 | 4.9             | 3.1 | 5.2             | 3.1 |
|                          | 104               | 40.0 | 3.8               | 2.9 | 3.9             | 2.9 | 4.2             | 2.9 | 4.3             | 3.1 | 4.5             | 3.1 | 4.8             | 3.1 | 5.1             | 3.0 |
|                          | 110               | 43.0 | 3.7               | 2.8 | 3.8             | 2.9 | 4.1             | 2.9 | 4.2             | 3.1 | 4.4             | 3.1 | 4.7             | 3.0 | 5.0             | 3.0 |
| 50<br>(5.6)              | 68                | 20.0 | 5.4               | 4.0 | 5.6             | 4.1 | 6.0             | 4.1 | 6.2             | 4.3 | 6.4             | 4.3 | 6.9             | 4.3 | 7.3             | 4.2 |
|                          | 73                | 22.5 | 5.3               | 3.9 | 5.5             | 4.1 | 5.9             | 4.0 | 6.1             | 4.3 | 6.3             | 4.3 | 6.8             | 4.2 | 7.2             | 4.2 |
|                          | 77                | 25.0 | 5.3               | 3.9 | 5.4             | 4.0 | 5.8             | 4.0 | 6.0             | 4.2 | 6.2             | 4.2 | 6.6             | 4.2 | 7.1             | 4.1 |
|                          | 82                | 27.5 | 5.2               | 3.8 | 5.3             | 4.0 | 5.7             | 4.0 | 5.9             | 4.2 | 6.1             | 4.2 | 6.5             | 4.1 | 6.9             | 4.1 |
|                          | 86                | 30.0 | 5.0               | 3.8 | 5.2             | 3.9 | 5.6             | 3.9 | 5.8             | 4.1 | 6.0             | 4.1 | 6.4             | 4.1 | 6.8             | 4.0 |
|                          | 91                | 32.5 | 5.0               | 3.7 | 5.1             | 3.9 | 5.5             | 3.9 | 5.7             | 4.1 | 5.9             | 4.1 | 6.3             | 4.0 | 6.7             | 4.0 |
|                          | 95                | 35.0 | 4.9               | 3.7 | 5.0             | 3.8 | 5.4             | 3.8 | 5.6             | 4.1 | 5.8             | 4.0 | 6.2             | 4.0 | 6.6             | 3.9 |
|                          | 100               | 37.5 | 4.8               | 3.7 | 5.0             | 3.8 | 5.3             | 3.8 | 5.5             | 4.0 | 5.7             | 4.0 | 6.0             | 4.0 | 6.4             | 3.9 |
|                          | 104               | 40.0 | 4.7               | 3.6 | 4.8             | 3.7 | 5.2             | 3.7 | 5.4             | 4.0 | 5.6             | 4.0 | 5.9             | 3.9 | 6.3             | 3.9 |
|                          | 110               | 43.0 | 4.6               | 3.6 | 4.7             | 3.7 | 5.0             | 3.7 | 5.2             | 3.9 | 5.4             | 3.9 | 5.8             | 3.9 | 6.2             | 3.8 |
| 63<br>(7.1)              | 68                | 20.0 | 6.9               | 4.9 | 7.1             | 5.1 | 7.6             | 5.1 | 7.9             | 5.4 | 8.2             | 5.3 | 8.7             | 5.3 | 9.3             | 5.2 |
|                          | 73                | 22.5 | 6.7               | 4.9 | 7.0             | 5.0 | 7.5             | 5.0 | 7.8             | 5.3 | 8.0             | 5.3 | 8.6             | 5.2 | 9.1             | 5.1 |
|                          | 77                | 25.0 | 6.7               | 4.8 | 6.9             | 5.0 | 7.4             | 5.0 | 7.6             | 5.2 | 7.9             | 5.2 | 8.4             | 5.1 | 8.9             | 5.1 |
|                          | 82                | 27.5 | 6.5               | 4.8 | 6.7             | 4.9 | 7.2             | 4.9 | 7.5             | 5.2 | 7.7             | 5.1 | 8.3             | 5.1 | 8.8             | 5.0 |
|                          | 86                | 30.0 | 6.4               | 4.7 | 6.6             | 4.8 | 7.1             | 4.8 | 7.3             | 5.1 | 7.6             | 5.1 | 8.1             | 5.0 | 8.7             | 5.0 |
|                          | 91                | 32.5 | 6.3               | 4.6 | 6.5             | 4.8 | 7.0             | 4.8 | 7.2             | 5.0 | 7.5             | 5.0 | 8.0             | 5.0 | 8.5             | 4.9 |
|                          | 95                | 35.0 | 6.2               | 4.6 | 6.4             | 4.7 | 6.8             | 4.7 | 7.1             | 5.0 | 7.3             | 5.0 | 7.8             | 4.9 | 8.3             | 4.9 |
|                          | 100               | 37.5 | 6.1               | 4.5 | 6.3             | 4.7 | 6.7             | 4.6 | 7.0             | 4.9 | 7.2             | 4.9 | 7.7             | 4.9 | 8.2             | 4.8 |
|                          | 104               | 40.0 | 6.0               | 4.5 | 6.1             | 4.6 | 6.6             | 4.6 | 6.8             | 4.9 | 7.1             | 4.9 | 7.5             | 4.8 | 8.0             | 4.7 |
|                          | 110               | 43.0 | 5.8               | 4.4 | 6.0             | 4.5 | 6.4             | 4.5 | 6.6             | 4.8 | 6.9             | 4.8 | 7.3             | 4.7 | 7.8             | 4.7 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I5. Cooling capacity with PUHY-RP850, 900YSJM

PFFY-P-VKM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 73                | 22.5 | 2.1               | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 |
|                          | 77                | 25.0 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 |
|                          | 82                | 27.5 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 86                | 30.0 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.3             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 91                | 32.5 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.2             | 1.8 | 2.3             | 1.8 | 2.5             | 1.8 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 1.9               | 1.6 | 2.0             | 1.7 | 2.1             | 1.6 | 2.2             | 1.8 | 2.3             | 1.8 | 2.5             | 1.7 | 2.6             | 1.7 |
|                          | 100               | 37.5 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.8 | 2.3             | 1.8 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 104               | 40.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 110               | 43.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
| 25<br>(2.8)              | 68                | 20.0 | 2.6               | 2.0 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 73                | 22.5 | 2.6               | 2.0 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.1 |
|                          | 77                | 25.0 | 2.6               | 2.0 | 2.7             | 2.0 | 2.9             | 2.0 | 2.9             | 2.1 | 3.0             | 2.1 | 3.2             | 2.1 | 3.4             | 2.1 |
|                          | 82                | 27.5 | 2.6               | 1.9 | 2.6             | 2.0 | 2.8             | 2.0 | 2.9             | 2.1 | 3.0             | 2.1 | 3.2             | 2.1 | 3.4             | 2.1 |
|                          | 86                | 30.0 | 2.5               | 1.9 | 2.6             | 2.0 | 2.8             | 2.0 | 2.9             | 2.1 | 3.0             | 2.1 | 3.2             | 2.1 | 3.4             | 2.0 |
|                          | 91                | 32.5 | 2.5               | 1.9 | 2.6             | 2.0 | 2.7             | 2.0 | 2.8             | 2.1 | 2.9             | 2.1 | 3.2             | 2.1 | 3.4             | 2.0 |
|                          | 95                | 35.0 | 2.5               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.1 | 2.9             | 2.1 | 3.1             | 2.1 | 3.3             | 2.0 |
|                          | 100               | 37.5 | 2.5               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.1 | 2.9             | 2.1 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 104               | 40.0 | 2.4               | 1.9 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 110               | 43.0 | 2.4               | 1.9 | 2.4             | 1.9 | 2.6             | 1.9 | 2.7             | 2.0 | 2.8             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 |
| 32<br>(3.6)              | 68                | 20.0 | 3.4               | 2.4 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.6 | 4.0             | 2.6 | 4.2             | 2.6 | 4.5             | 2.5 |
|                          | 73                | 22.5 | 3.4               | 2.4 | 3.5             | 2.5 | 3.7             | 2.4 | 3.8             | 2.6 | 4.0             | 2.6 | 4.2             | 2.5 | 4.5             | 2.5 |
|                          | 77                | 25.0 | 3.3               | 2.4 | 3.4             | 2.4 | 3.7             | 2.4 | 3.8             | 2.6 | 3.9             | 2.6 | 4.2             | 2.5 | 4.4             | 2.5 |
|                          | 82                | 27.5 | 3.3               | 2.4 | 3.4             | 2.4 | 3.6             | 2.4 | 3.7             | 2.5 | 3.9             | 2.5 | 4.1             | 2.5 | 4.4             | 2.5 |
|                          | 86                | 30.0 | 3.3               | 2.3 | 3.3             | 2.4 | 3.6             | 2.4 | 3.7             | 2.5 | 3.8             | 2.5 | 4.1             | 2.5 | 4.3             | 2.5 |
|                          | 91                | 32.5 | 3.2               | 2.3 | 3.3             | 2.4 | 3.5             | 2.4 | 3.7             | 2.5 | 3.8             | 2.5 | 4.1             | 2.5 | 4.3             | 2.4 |
|                          | 95                | 35.0 | 3.2               | 2.3 | 3.3             | 2.3 | 3.5             | 2.3 | 3.6             | 2.5 | 3.8             | 2.5 | 4.0             | 2.5 | 4.3             | 2.4 |
|                          | 100               | 37.5 | 3.2               | 2.3 | 3.2             | 2.3 | 3.4             | 2.3 | 3.6             | 2.5 | 3.7             | 2.5 | 4.0             | 2.4 | 4.2             | 2.4 |
|                          | 104               | 40.0 | 3.1               | 2.3 | 3.2             | 2.3 | 3.4             | 2.3 | 3.5             | 2.4 | 3.7             | 2.4 | 3.9             | 2.4 | 4.2             | 2.4 |
|                          | 110               | 43.0 | 3.1               | 2.2 | 3.1             | 2.3 | 3.4             | 2.3 | 3.5             | 2.4 | 3.6             | 2.4 | 3.9             | 2.4 | 4.2             | 2.4 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.0 | 4.4             | 3.0 | 4.7             | 3.0 | 4.8             | 3.2 | 5.0             | 3.2 | 5.3             | 3.2 | 5.6             | 3.1 |
|                          | 73                | 22.5 | 4.2               | 3.0 | 4.3             | 3.0 | 4.6             | 3.0 | 4.8             | 3.2 | 4.9             | 3.2 | 5.3             | 3.1 | 5.6             | 3.1 |
|                          | 77                | 25.0 | 4.2               | 2.9 | 4.3             | 3.0 | 4.6             | 3.0 | 4.7             | 3.1 | 4.9             | 3.1 | 5.2             | 3.1 | 5.5             | 3.1 |
|                          | 82                | 27.5 | 4.1               | 2.9 | 4.2             | 3.0 | 4.5             | 3.0 | 4.7             | 3.1 | 4.8             | 3.1 | 5.2             | 3.1 | 5.5             | 3.0 |
|                          | 86                | 30.0 | 4.1               | 2.9 | 4.2             | 2.9 | 4.5             | 2.9 | 4.6             | 3.1 | 4.8             | 3.1 | 5.1             | 3.1 | 5.4             | 3.0 |
|                          | 91                | 32.5 | 4.0               | 2.9 | 4.1             | 2.9 | 4.4             | 2.9 | 4.6             | 3.1 | 4.7             | 3.1 | 5.1             | 3.1 | 5.4             | 3.0 |
|                          | 95                | 35.0 | 4.0               | 2.8 | 4.1             | 2.9 | 4.4             | 2.9 | 4.5             | 3.1 | 4.7             | 3.1 | 5.0             | 3.0 | 5.3             | 3.0 |
|                          | 100               | 37.5 | 3.9               | 2.8 | 4.0             | 2.9 | 4.3             | 2.9 | 4.5             | 3.0 | 4.6             | 3.0 | 5.0             | 3.0 | 5.3             | 3.0 |
|                          | 104               | 40.0 | 3.9               | 2.8 | 4.0             | 2.8 | 4.3             | 2.8 | 4.4             | 3.0 | 4.6             | 3.0 | 4.9             | 3.0 | 5.2             | 2.9 |
|                          | 110               | 43.0 | 3.8               | 2.8 | 3.9             | 2.8 | 4.2             | 2.8 | 4.4             | 3.0 | 4.5             | 3.0 | 4.9             | 3.0 | 5.2             | 2.9 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I5. Cooling capacity with PUHY-RP850, 900YSJM

PFFY-P-VLEM-E, VLRM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
| 20<br>(2.2)              | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 2.1               | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 73                | 22.5 | 2.1               | 1.6 | 2.1             | 1.7 | 2.3             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 |
|                          | 77                | 25.0 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.7 |
|                          | 82                | 27.5 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 86                | 30.0 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.3             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 91                | 32.5 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.6 | 2.2             | 1.8 | 2.3             | 1.8 | 2.5             | 1.7 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.8 | 2.3             | 1.7 | 2.5             | 1.7 | 2.6             | 1.7 |
|                          | 100               | 37.5 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 104               | 40.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 110               | 43.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
| 25<br>(2.8)              | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.0 |
|                          | 73                | 22.5 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.0 | 3.5             | 2.0 |
|                          | 77                | 25.0 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 1.9 | 2.9             | 2.1 | 3.0             | 2.1 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 82                | 27.5 | 2.6               | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 86                | 30.0 | 2.5               | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 91                | 32.5 | 2.5               | 1.9 | 2.6             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 95                | 35.0 | 2.5               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 100               | 37.5 | 2.5               | 1.8 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 104               | 40.0 | 2.4               | 1.8 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 1.9 |
|                          | 110               | 43.0 | 2.4               | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 2.0 | 2.8             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 |
| 32<br>(3.6)              | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 3.4               | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 73                | 22.5 | 3.4               | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.8             | 2.6 | 4.0             | 2.6 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 77                | 25.0 | 3.3               | 2.4 | 3.4             | 2.5 | 3.7             | 2.5 | 3.8             | 2.6 | 3.9             | 2.6 | 4.2             | 2.6 | 4.4             | 2.6 |
|                          | 82                | 27.5 | 3.3               | 2.4 | 3.4             | 2.5 | 3.6             | 2.5 | 3.7             | 2.6 | 3.9             | 2.6 | 4.1             | 2.6 | 4.4             | 2.5 |
|                          | 86                | 30.0 | 3.3               | 2.4 | 3.3             | 2.5 | 3.6             | 2.4 | 3.7             | 2.6 | 3.8             | 2.6 | 4.1             | 2.6 | 4.3             | 2.5 |
|                          | 91                | 32.5 | 3.2               | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.7             | 2.6 | 3.8             | 2.6 | 4.1             | 2.5 | 4.3             | 2.5 |
|                          | 95                | 35.0 | 3.2               | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.6             | 2.6 | 3.8             | 2.6 | 4.0             | 2.5 | 4.3             | 2.5 |
|                          | 100               | 37.5 | 3.2               | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.6             | 2.5 | 3.7             | 2.5 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 104               | 40.0 | 3.1               | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.5 | 4.2             | 2.5 |
|                          | 110               | 43.0 | 3.1               | 2.3 | 3.1             | 2.4 | 3.4             | 2.3 | 3.5             | 2.5 | 3.6             | 2.5 | 3.9             | 2.5 | 4.2             | 2.5 |
| 40<br>(4.5)              | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.8             | 3.3 | 5.0             | 3.3 | 5.3             | 3.3 | 5.6             | 3.3 |
|                          | 73                | 22.5 | 4.2               | 3.1 | 4.3             | 3.2 | 4.6             | 3.1 | 4.8             | 3.3 | 4.9             | 3.3 | 5.3             | 3.3 | 5.6             | 3.2 |
|                          | 77                | 25.0 | 4.2               | 3.1 | 4.3             | 3.1 | 4.6             | 3.1 | 4.7             | 3.3 | 4.9             | 3.3 | 5.2             | 3.3 | 5.5             | 3.2 |
|                          | 82                | 27.5 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.7             | 3.3 | 4.8             | 3.3 | 5.2             | 3.2 | 5.5             | 3.2 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.6             | 3.3 | 4.8             | 3.2 | 5.1             | 3.2 | 5.4             | 3.2 |
|                          | 91                | 32.5 | 4.0               | 3.0 | 4.1             | 3.1 | 4.4             | 3.0 | 4.6             | 3.2 | 4.7             | 3.2 | 5.1             | 3.2 | 5.4             | 3.2 |
|                          | 95                | 35.0 | 4.0               | 3.0 | 4.1             | 3.0 | 4.4             | 3.0 | 4.5             | 3.2 | 4.7             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 100               | 37.5 | 3.9               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.5             | 3.2 | 4.6             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 104               | 40.0 | 3.9               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.2 | 4.6             | 3.2 | 4.9             | 3.1 | 5.2             | 3.1 |
|                          | 110               | 43.0 | 3.8               | 2.9 | 3.9             | 3.0 | 4.2             | 3.0 | 4.4             | 3.1 | 4.5             | 3.1 | 4.9             | 3.1 | 5.2             | 3.1 |
| 50<br>(5.6)              | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 5.3               | 3.9 | 5.4             | 4.0 | 5.8             | 4.0 | 6.0             | 4.2 | 6.2             | 4.2 | 6.6             | 4.2 | 7.0             | 4.1 |
|                          | 73                | 22.5 | 5.2               | 3.9 | 5.4             | 4.0 | 5.8             | 4.0 | 5.9             | 4.2 | 6.1             | 4.2 | 6.6             | 4.2 | 7.0             | 4.1 |
|                          | 77                | 25.0 | 5.2               | 3.9 | 5.3             | 4.0 | 5.7             | 3.9 | 5.9             | 4.2 | 6.1             | 4.2 | 6.5             | 4.1 | 6.9             | 4.1 |
|                          | 82                | 27.5 | 5.1               | 3.8 | 5.3             | 3.9 | 5.6             | 3.9 | 5.8             | 4.2 | 6.0             | 4.1 | 6.4             | 4.1 | 6.8             | 4.0 |
|                          | 86                | 30.0 | 5.1               | 3.8 | 5.2             | 3.9 | 5.6             | 3.9 | 5.8             | 4.1 | 5.9             | 4.1 | 6.4             | 4.1 | 6.7             | 4.0 |
|                          | 91                | 32.5 | 5.0               | 3.8 | 5.1             | 3.9 | 5.5             | 3.9 | 5.7             | 4.1 | 5.9             | 4.1 | 6.3             | 4.1 | 6.7             | 4.0 |
|                          | 95                | 35.0 | 5.0               | 3.8 | 5.1             | 3.8 | 5.4             | 3.8 | 5.6             | 4.1 | 5.8             | 4.1 | 6.3             | 4.0 | 6.7             | 4.0 |
|                          | 100               | 37.5 | 4.9               | 3.7 | 5.0             | 3.8 | 5.4             | 3.8 | 5.6             | 4.0 | 5.8             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 |
|                          | 104               | 40.0 | 4.8               | 3.7 | 4.9             | 3.8 | 5.3             | 3.8 | 5.5             | 4.0 | 5.7             | 4.0 | 6.1             | 4.0 | 6.5             | 3.9 |
|                          | 110               | 43.0 | 4.8               | 3.7 | 4.9             | 3.7 | 5.2             | 3.7 | 5.4             | 4.0 | 5.6             | 4.0 | 6.0             | 4.0 | 6.5             | 3.9 |
| 63<br>(7.1)              | °FDB              | °CDB | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
|                          | 68                | 20.0 | 6.7               | 4.9 | 6.9             | 5.0 | 7.4             | 5.0 | 7.6             | 5.2 | 7.9             | 5.2 | 8.4             | 5.1 | 8.9             | 5.1 |
|                          | 73                | 22.5 | 6.6               | 4.8 | 6.8             | 4.9 | 7.3             | 4.9 | 7.5             | 5.2 | 7.8             | 5.2 | 8.3             | 5.1 | 8.8             | 5.0 |
|                          | 77                | 25.0 | 6.6               | 4.8 | 6.7             | 4.9 | 7.2             | 4.9 | 7.5             | 5.2 | 7.7             | 5.1 | 8.2             | 5.1 | 8.7             | 5.0 |
|                          | 82                | 27.5 | 6.5               | 4.7 | 6.7             | 4.9 | 7.1             | 4.8 | 7.4             | 5.1 | 7.6             | 5.1 | 8.2             | 5.1 | 8.7             | 5.0 |
|                          | 86                | 30.0 | 6.4               | 4.7 | 6.6             | 4.8 | 7.1             | 4.8 | 7.3             | 5.1 | 7.5             | 5.1 | 8.1             | 5.0 | 8.6             | 4.9 |
|                          | 91                | 32.5 | 6.4               | 4.7 | 6.5             | 4.8 | 7.0             | 4.8 | 7.2             | 5.0 | 7.5             | 5.0 | 8.0             | 5.0 | 8.5             | 4.9 |
|                          | 95                | 35.0 | 6.3               | 4.6 | 6.4             | 4.7 | 6.9             | 4.7 | 7.1             | 5.0 | 7.4             | 5.0 | 7.9             | 5.0 | 8.4             | 4.9 |
|                          | 100               | 37.5 | 6.2               | 4.6 | 6.3             | 4.7 | 6.8             | 4.7 | 7.0             | 5.0 | 7.3             | 5.0 | 7.8             | 4.9 | 8.4             | 4.9 |
|                          | 104               | 40.0 | 6.1               | 4.6 | 6.2             | 4.7 | 6.7             | 4.6 | 7.0             | 4.9 | 7.2             | 4.9 | 7.8             | 4.9 | 8.3             | 4.8 |
|                          | 110               | 43.0 | 6.1               | 4.5 | 6.2             | 4.6 | 6.6             | 4.6 | 6.9             | 4.9 | 7.2             | 4.9 | 7.7             | 4.9 | 8.2             | 4.8 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## I5. Cooling capacity with PUHY-RP850, 900YSJM

PFFY-P-VLRMM-E

CA : Capacity(kW) SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |      | Indoor air temp.  |     |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|--------------------------|-------------------|------|-------------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|                          |                   |      | 71°FDB / 59°FWB   |     | 73°FDB / 61°FWB |     | 77°FDB / 64°FWB |     | 81°FDB / 66°FWB |     | 82°FDB / 68°FWB |     | 86°FDB / 72°FWB |     | 90°FDB / 75°FWB |     |
|                          | °FDB              | °CDB | 21.5°CDB / 15°CWB |     | 23°CDB / 16°CWB |     | 25°CDB / 18°CWB |     | 27°CDB / 19°CWB |     | 28°CDB / 20°CWB |     | 30°CDB / 22°CWB |     | 32°CDB / 24°CWB |     |
|                          |                   |      | CA                | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC | CA              | SHC |
| 20<br>(2.2)              | 68                | 20.0 | 2.1               | 1.7 | 2.1             | 1.7 | 2.3             | 1.7 | 2.4             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.8             | 1.8 |
|                          | 73                | 22.5 | 2.1               | 1.6 | 2.1             | 1.7 | 2.3             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.8 |
|                          | 77                | 25.0 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 1.7 |
|                          | 82                | 27.5 | 2.0               | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.4             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 86                | 30.0 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.7 | 2.3             | 1.8 | 2.3             | 1.8 | 2.5             | 1.8 | 2.7             | 1.7 |
|                          | 91                | 32.5 | 2.0               | 1.6 | 2.0             | 1.7 | 2.2             | 1.6 | 2.2             | 1.8 | 2.3             | 1.8 | 2.5             | 1.7 | 2.6             | 1.7 |
|                          | 95                | 35.0 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.8 | 2.3             | 1.7 | 2.5             | 1.7 | 2.6             | 1.7 |
|                          | 100               | 37.5 | 1.9               | 1.6 | 2.0             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.3             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 104               | 40.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.2             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.6             | 1.7 |
|                          | 110               | 43.0 | 1.9               | 1.6 | 1.9             | 1.6 | 2.1             | 1.6 | 2.1             | 1.7 | 2.2             | 1.7 | 2.4             | 1.7 | 2.5             | 1.7 |
| 25<br>(2.8)              | 68                | 20.0 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.1 | 3.5             | 2.0 |
|                          | 73                | 22.5 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.0             | 2.1 | 3.1             | 2.1 | 3.3             | 2.0 | 3.5             | 2.0 |
|                          | 77                | 25.0 | 2.6               | 1.9 | 2.7             | 2.0 | 2.9             | 1.9 | 2.9             | 2.1 | 3.0             | 2.1 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 82                | 27.5 | 2.6               | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 86                | 30.0 | 2.5               | 1.9 | 2.6             | 1.9 | 2.8             | 1.9 | 2.9             | 2.0 | 3.0             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 91                | 32.5 | 2.5               | 1.9 | 2.6             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.2             | 2.0 | 3.4             | 2.0 |
|                          | 95                | 35.0 | 2.5               | 1.9 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 100               | 37.5 | 2.5               | 1.8 | 2.5             | 1.9 | 2.7             | 1.9 | 2.8             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 2.0 |
|                          | 104               | 40.0 | 2.4               | 1.8 | 2.5             | 1.9 | 2.6             | 1.9 | 2.7             | 2.0 | 2.9             | 2.0 | 3.1             | 2.0 | 3.3             | 1.9 |
|                          | 110               | 43.0 | 2.4               | 1.8 | 2.4             | 1.8 | 2.6             | 1.8 | 2.7             | 2.0 | 2.8             | 2.0 | 3.0             | 1.9 | 3.2             | 1.9 |
| 32<br>(3.6)              | 68                | 20.0 | 3.4               | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.7 | 4.0             | 2.7 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 73                | 22.5 | 3.4               | 2.5 | 3.5             | 2.5 | 3.7             | 2.5 | 3.8             | 2.6 | 4.0             | 2.6 | 4.2             | 2.6 | 4.5             | 2.6 |
|                          | 77                | 25.0 | 3.3               | 2.4 | 3.4             | 2.5 | 3.7             | 2.5 | 3.8             | 2.6 | 3.9             | 2.6 | 4.2             | 2.6 | 4.4             | 2.6 |
|                          | 82                | 27.5 | 3.3               | 2.4 | 3.4             | 2.5 | 3.6             | 2.5 | 3.7             | 2.6 | 3.9             | 2.6 | 4.1             | 2.6 | 4.4             | 2.5 |
|                          | 86                | 30.0 | 3.3               | 2.4 | 3.3             | 2.5 | 3.6             | 2.4 | 3.7             | 2.6 | 3.8             | 2.6 | 4.1             | 2.6 | 4.3             | 2.5 |
|                          | 91                | 32.5 | 3.2               | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.7             | 2.6 | 3.8             | 2.6 | 4.1             | 2.5 | 4.3             | 2.5 |
|                          | 95                | 35.0 | 3.2               | 2.4 | 3.3             | 2.4 | 3.5             | 2.4 | 3.6             | 2.6 | 3.8             | 2.6 | 4.0             | 2.5 | 4.3             | 2.5 |
|                          | 100               | 37.5 | 3.2               | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.6             | 2.5 | 3.7             | 2.5 | 4.0             | 2.5 | 4.2             | 2.5 |
|                          | 104               | 40.0 | 3.1               | 2.3 | 3.2             | 2.4 | 3.4             | 2.4 | 3.5             | 2.5 | 3.7             | 2.5 | 3.9             | 2.5 | 4.2             | 2.5 |
|                          | 110               | 43.0 | 3.1               | 2.3 | 3.1             | 2.4 | 3.4             | 2.3 | 3.5             | 2.5 | 3.6             | 2.5 | 3.9             | 2.5 | 4.2             | 2.5 |
| 40<br>(4.5)              | 68                | 20.0 | 4.3               | 3.1 | 4.4             | 3.2 | 4.7             | 3.2 | 4.8             | 3.3 | 5.0             | 3.3 | 5.3             | 3.3 | 5.6             | 3.3 |
|                          | 73                | 22.5 | 4.2               | 3.1 | 4.3             | 3.2 | 4.6             | 3.1 | 4.8             | 3.3 | 4.9             | 3.3 | 5.3             | 3.3 | 5.6             | 3.2 |
|                          | 77                | 25.0 | 4.2               | 3.1 | 4.3             | 3.1 | 4.6             | 3.1 | 4.7             | 3.3 | 4.9             | 3.3 | 5.2             | 3.3 | 5.5             | 3.2 |
|                          | 82                | 27.5 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.7             | 3.3 | 4.8             | 3.3 | 5.2             | 3.2 | 5.5             | 3.2 |
|                          | 86                | 30.0 | 4.1               | 3.0 | 4.2             | 3.1 | 4.5             | 3.1 | 4.6             | 3.3 | 4.8             | 3.2 | 5.1             | 3.2 | 5.4             | 3.2 |
|                          | 91                | 32.5 | 4.0               | 3.0 | 4.1             | 3.1 | 4.4             | 3.0 | 4.6             | 3.2 | 4.7             | 3.2 | 5.1             | 3.2 | 5.4             | 3.2 |
|                          | 95                | 35.0 | 4.0               | 3.0 | 4.1             | 3.0 | 4.4             | 3.0 | 4.5             | 3.2 | 4.7             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 100               | 37.5 | 3.9               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.5             | 3.2 | 4.6             | 3.2 | 5.0             | 3.2 | 5.3             | 3.1 |
|                          | 104               | 40.0 | 3.9               | 2.9 | 4.0             | 3.0 | 4.3             | 3.0 | 4.4             | 3.2 | 4.6             | 3.2 | 4.9             | 3.1 | 5.2             | 3.1 |
|                          | 110               | 43.0 | 3.8               | 2.9 | 3.9             | 3.0 | 4.2             | 3.0 | 4.4             | 3.1 | 4.5             | 3.1 | 4.9             | 3.1 | 5.2             | 3.1 |
| 50<br>(5.6)              | 68                | 20.0 | 5.3               | 3.9 | 5.4             | 4.0 | 5.8             | 4.0 | 6.0             | 4.2 | 6.2             | 4.2 | 6.6             | 4.2 | 7.0             | 4.1 |
|                          | 73                | 22.5 | 5.2               | 3.9 | 5.4             | 4.0 | 5.8             | 4.0 | 5.9             | 4.2 | 6.1             | 4.2 | 6.6             | 4.2 | 7.0             | 4.1 |
|                          | 77                | 25.0 | 5.2               | 3.9 | 5.3             | 4.0 | 5.7             | 3.9 | 5.9             | 4.2 | 6.1             | 4.2 | 6.5             | 4.1 | 6.9             | 4.1 |
|                          | 82                | 27.5 | 5.1               | 3.8 | 5.3             | 3.9 | 5.6             | 3.9 | 5.8             | 4.2 | 6.0             | 4.1 | 6.4             | 4.1 | 6.8             | 4.0 |
|                          | 86                | 30.0 | 5.1               | 3.8 | 5.2             | 3.9 | 5.6             | 3.9 | 5.8             | 4.1 | 5.9             | 4.1 | 6.4             | 4.1 | 6.7             | 4.0 |
|                          | 91                | 32.5 | 5.0               | 3.8 | 5.1             | 3.9 | 5.5             | 3.9 | 5.7             | 4.1 | 5.9             | 4.1 | 6.3             | 4.1 | 6.7             | 4.0 |
|                          | 95                | 35.0 | 5.0               | 3.8 | 5.1             | 3.8 | 5.4             | 3.8 | 5.6             | 4.1 | 5.8             | 4.1 | 6.3             | 4.0 | 6.7             | 4.0 |
|                          | 100               | 37.5 | 4.9               | 3.7 | 5.0             | 3.8 | 5.4             | 3.8 | 5.6             | 4.0 | 5.8             | 4.0 | 6.2             | 4.0 | 6.6             | 4.0 |
|                          | 104               | 40.0 | 4.8               | 3.7 | 4.9             | 3.8 | 5.3             | 3.8 | 5.5             | 4.0 | 5.7             | 4.0 | 6.1             | 4.0 | 6.5             | 3.9 |
|                          | 110               | 43.0 | 4.8               | 3.7 | 4.9             | 3.7 | 5.2             | 3.7 | 5.4             | 4.0 | 5.6             | 4.0 | 6.0             | 4.0 | 6.5             | 3.9 |
| 63<br>(7.1)              | 68                | 20.0 | 6.7               | 4.9 | 6.9             | 5.0 | 7.4             | 5.0 | 7.6             | 5.2 | 7.9             | 5.2 | 8.4             | 5.1 | 8.9             | 5.1 |
|                          | 73                | 22.5 | 6.6               | 4.8 | 6.8             | 4.9 | 7.3             | 4.9 | 7.5             | 5.2 | 7.8             | 5.2 | 8.3             | 5.1 | 8.8             | 5.0 |
|                          | 77                | 25.0 | 6.6               | 4.8 | 6.7             | 4.9 | 7.2             | 4.9 | 7.5             | 5.2 | 7.7             | 5.1 | 8.2             | 5.1 | 8.7             | 5.0 |
|                          | 82                | 27.5 | 6.5               | 4.7 | 6.7             | 4.9 | 7.1             | 4.8 | 7.4             | 5.1 | 7.6             | 5.1 | 8.2             | 5.1 | 8.7             | 5.0 |
|                          | 86                | 30.0 | 6.4               | 4.7 | 6.6             | 4.8 | 7.1             | 4.8 | 7.3             | 5.1 | 7.5             | 5.1 | 8.1             | 5.0 | 8.6             | 4.9 |
|                          | 91                | 32.5 | 6.4               | 4.7 | 6.5             | 4.8 | 7.0             | 4.8 | 7.2             | 5.0 | 7.5             | 5.0 | 8.0             | 5.0 | 8.5             | 4.9 |
|                          | 95                | 35.0 | 6.3               | 4.6 | 6.4             | 4.7 | 6.9             | 4.7 | 7.1             | 5.0 | 7.4             | 5.0 | 7.9             | 5.0 | 8.4             | 4.9 |
|                          | 100               | 37.5 | 6.2               | 4.6 | 6.3             | 4.7 | 6.8             | 4.7 | 7.0             | 5.0 | 7.3             | 5.0 | 7.8             | 4.9 | 8.4             | 4.9 |
|                          | 104               | 40.0 | 6.1               | 4.6 | 6.2             | 4.7 | 6.7             | 4.6 | 7.0             | 4.9 | 7.2             | 4.9 | 7.8             | 4.9 | 8.3             | 4.8 |
|                          | 110               | 43.0 | 6.1               | 4.5 | 6.2             | 4.6 | 6.6             | 4.6 | 6.9             | 4.9 | 7.2             | 4.9 | 7.7             | 4.9 | 8.2             | 4.8 |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## X1. Heating capacity with PUHY-RP200, 250YJM/PURY-RP200, 250YJM

SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp.    |                     |                     |                     |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
|                          |                   |       | 59 °FDB<br>15.0°CDB | 68 °FDB<br>20.0°CDB | 77 °FDB<br>25.0°CDB | 81 °FDB<br>27.0°CDB |
|                          | °FWB              | °CWB  | SHC                 | SHC                 | SHC                 | SHC                 |
| 15<br>(1.7)              | -4                | -20.0 | 1.0                 | 1.0                 | 1.0                 | 1.0                 |
|                          | 5                 | -15.0 | 1.2                 | 1.1                 | 1.1                 | 1.1                 |
|                          | 14                | -10.0 | 1.4                 | 1.4                 | 1.4                 | 1.3                 |
|                          | 23                | -5.0  | 1.6                 | 1.6                 | 1.5                 | 1.4                 |
|                          | 32                | 0.0   | 1.8                 | 1.8                 | 1.5                 | 1.4                 |
|                          | 37                | 2.5   | 1.9                 | 1.9                 | 1.5                 | 1.4                 |
|                          | 43                | 6.0   | 2.0                 | 1.9                 | 1.5                 | 1.4                 |
|                          | 46                | 7.5   | 2.1                 | 1.9                 | 1.5                 | 1.4                 |
|                          | 50                | 10.0  | 2.2                 | 1.9                 | 1.5                 | 1.4                 |
|                          | 55                | 12.5  | 2.3                 | 1.9                 | 1.5                 | 1.4                 |
|                          | 60                | 15.5  | 2.4                 | 1.9                 | 1.5                 | 1.4                 |
| 20<br>(2.5)              | -4                | -20.0 | 1.3                 | 1.3                 | 1.3                 | 1.3                 |
|                          | 5                 | -15.0 | 1.6                 | 1.5                 | 1.5                 | 1.5                 |
|                          | 14                | -10.0 | 1.8                 | 1.8                 | 1.8                 | 1.7                 |
|                          | 23                | -5.0  | 2.1                 | 2.1                 | 2.0                 | 1.8                 |
|                          | 32                | 0.0   | 2.4                 | 2.4                 | 2.0                 | 1.8                 |
|                          | 37                | 2.5   | 2.5                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 43                | 6.0   | 2.6                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 46                | 7.5   | 2.7                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 50                | 10.0  | 2.9                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 55                | 12.5  | 3.0                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 60                | 15.5  | 3.2                 | 2.5                 | 2.0                 | 1.8                 |
| 25<br>(3.2)              | -4                | -20.0 | 1.6                 | 1.6                 | 1.6                 | 1.6                 |
|                          | 5                 | -15.0 | 2.0                 | 2.0                 | 1.9                 | 1.9                 |
|                          | 14                | -10.0 | 2.3                 | 2.3                 | 2.2                 | 2.2                 |
|                          | 23                | -5.0  | 2.7                 | 2.7                 | 2.6                 | 2.2                 |
|                          | 32                | 0.0   | 3.0                 | 3.0                 | 2.6                 | 2.2                 |
|                          | 37                | 2.5   | 3.2                 | 3.2                 | 2.6                 | 2.2                 |
|                          | 43                | 6.0   | 3.3                 | 3.2                 | 2.6                 | 2.2                 |
|                          | 46                | 7.5   | 3.4                 | 3.2                 | 2.6                 | 2.2                 |
|                          | 50                | 10.0  | 3.6                 | 3.2                 | 2.6                 | 2.2                 |
|                          | 55                | 12.5  | 3.9                 | 3.2                 | 2.6                 | 2.2                 |
|                          | 60                | 15.5  | 4.1                 | 3.2                 | 2.6                 | 2.2                 |
| 32<br>(4.0)              | -4                | -20.0 | 2.1                 | 2.0                 | 2.0                 | 2.0                 |
|                          | 5                 | -15.0 | 2.5                 | 2.4                 | 2.4                 | 2.4                 |
|                          | 14                | -10.0 | 2.9                 | 2.9                 | 2.8                 | 2.7                 |
|                          | 23                | -5.0  | 3.4                 | 3.3                 | 3.2                 | 2.8                 |
|                          | 32                | 0.0   | 3.8                 | 3.8                 | 3.2                 | 2.8                 |
|                          | 37                | 2.5   | 4.0                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 43                | 6.0   | 4.2                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 46                | 7.5   | 4.3                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 50                | 10.0  | 4.6                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 55                | 12.5  | 4.8                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 60                | 15.5  | 5.1                 | 4.0                 | 3.2                 | 2.8                 |
| 40<br>(5.0)              | -4                | -20.0 | 2.6                 | 2.5                 | 2.5                 | 2.5                 |
|                          | 5                 | -15.0 | 3.1                 | 3.1                 | 3.0                 | 3.0                 |
|                          | 14                | -10.0 | 3.7                 | 3.6                 | 3.5                 | 3.4                 |
|                          | 23                | -5.0  | 4.2                 | 4.2                 | 4.0                 | 3.5                 |
|                          | 32                | 0.0   | 4.7                 | 4.7                 | 4.0                 | 3.5                 |
|                          | 37                | 2.5   | 5.0                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 43                | 6.0   | 5.2                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 46                | 7.5   | 5.4                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 50                | 10.0  | 5.7                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 55                | 12.5  | 6.0                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 60                | 15.5  | 6.4                 | 5.0                 | 4.0                 | 3.5                 |
| 50<br>(6.3)              | -4                | -20.0 | 3.2                 | 3.2                 | 3.2                 | 3.2                 |
|                          | 5                 | -15.0 | 3.9                 | 3.8                 | 3.8                 | 3.7                 |
|                          | 14                | -10.0 | 4.6                 | 4.5                 | 4.4                 | 4.3                 |
|                          | 23                | -5.0  | 5.3                 | 5.2                 | 5.0                 | 4.4                 |
|                          | 32                | 0.0   | 6.0                 | 5.9                 | 5.0                 | 4.4                 |
|                          | 37                | 2.5   | 6.3                 | 6.2                 | 5.0                 | 4.4                 |
|                          | 43                | 6.0   | 6.6                 | 6.3                 | 5.0                 | 4.4                 |
|                          | 46                | 7.5   | 6.8                 | 6.3                 | 5.0                 | 4.4                 |
|                          | 50                | 10.0  | 7.2                 | 6.3                 | 5.0                 | 4.4                 |
|                          | 55                | 12.5  | 7.6                 | 6.3                 | 5.0                 | 4.4                 |
|                          | 60                | 15.5  | 8.1                 | 6.3                 | 5.0                 | 4.4                 |
| 63<br>(8.0)              | -4                | -20.0 | 4.1                 | 4.0                 | 4.0                 | 4.0                 |
|                          | 5                 | -15.0 | 5.0                 | 4.9                 | 4.8                 | 4.7                 |
|                          | 14                | -10.0 | 5.8                 | 5.8                 | 5.6                 | 5.5                 |
|                          | 23                | -5.0  | 6.7                 | 6.6                 | 6.4                 | 5.6                 |
|                          | 32                | 0.0   | 7.6                 | 7.5                 | 6.4                 | 5.6                 |
|                          | 37                | 2.5   | 8.0                 | 7.9                 | 6.4                 | 5.6                 |
|                          | 43                | 6.0   | 8.3                 | 8.0                 | 6.4                 | 5.6                 |
|                          | 46                | 7.5   | 8.6                 | 8.0                 | 6.4                 | 5.6                 |
|                          | 50                | 10.0  | 9.1                 | 8.0                 | 6.4                 | 5.6                 |
|                          | 55                | 12.5  | 9.6                 | 8.0                 | 6.4                 | 5.6                 |
|                          | 60                | 15.5  | 10.2                | 8.0                 | 6.4                 | 5.6                 |

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp.    |                     |                     |                     |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
|                          |                   |       | 59 °FDB<br>15.0°CDB | 68 °FDB<br>20.0°CDB | 77 °FDB<br>25.0°CDB | 81 °FDB<br>27.0°CDB |
|                          | °FWB              | °CWB  | SHC                 | SHC                 | SHC                 | SHC                 |
| 71<br>(9.0)              | -4                | -20.0 | 4.6                 | 4.5                 | 4.5                 | 4.5                 |
|                          | 5                 | -15.0 | 5.6                 | 5.5                 | 5.4                 | 5.3                 |
|                          | 14                | -10.0 | 6.6                 | 6.5                 | 6.3                 | 6.2                 |
|                          | 23                | -5.0  | 7.6                 | 7.5                 | 7.2                 | 6.3                 |
|                          | 32                | 0.0   | 8.5                 | 8.5                 | 7.2                 | 6.3                 |
|                          | 37                | 2.5   | 9.0                 | 8.9                 | 7.2                 | 6.3                 |
|                          | 43                | 6.0   | 9.4                 | 9.0                 | 7.2                 | 6.3                 |
|                          | 46                | 7.5   | 9.7                 | 9.0                 | 7.2                 | 6.3                 |
|                          | 50                | 10.0  | 10.3                | 9.0                 | 7.2                 | 6.3                 |
|                          | 55                | 12.5  | 10.8                | 9.0                 | 7.2                 | 6.3                 |
|                          | 60                | 15.5  | 11.5                | 9.0                 | 7.2                 | 6.3                 |
| 80<br>(10.0)             | -4                | -20.0 | 5.2                 | 5.0                 | 5.0                 | 5.0                 |
|                          | 5                 | -15.0 | 6.2                 | 6.1                 | 6.0                 | 5.9                 |
|                          | 14                | -10.0 | 7.3                 | 7.2                 | 7.0                 | 6.9                 |
|                          | 23                | -5.0  | 8.4                 | 8.3                 | 8.0                 | 7.0                 |
|                          | 32                | 0.0   | 9.5                 | 9.4                 | 8.0                 | 7.0                 |
|                          | 37                | 2.5   | 10.0                | 9.9                 | 8.0                 | 7.0                 |
|                          | 43                | 6.0   | 10.4                | 10.0                | 8.0                 | 7.0                 |
|                          | 46                | 7.5   | 10.8                | 10.0                | 8.0                 | 7.0                 |
|                          | 50                | 10.0  | 11.4                | 10.0                | 8.0                 | 7.0                 |
|                          | 55                | 12.5  | 12.1                | 10.0                | 8.0                 | 7.0                 |
|                          | 60                | 15.5  | 12.8                | 10.0                | 8.0                 | 7.0                 |
| 100<br>(12.5)            | -4                | -20.0 | 6.4                 | 6.3                 | 6.3                 | 6.3                 |
|                          | 5                 | -15.0 | 7.8                 | 7.6                 | 7.5                 | 7.4                 |
|                          | 14                | -10.0 | 9.1                 | 9.0                 | 8.8                 | 8.6                 |
|                          | 23                | -5.0  | 10.5                | 10.4                | 10.0                | 8.8                 |
|                          | 32                | 0.0   | 11.8                | 11.8                | 10.0                | 8.8                 |
|                          | 37                | 2.5   | 12.5                | 12.4                | 10.0                | 8.8                 |
|                          | 43                | 6.0   | 13.0                | 12.5                | 10.0                | 8.8                 |
|                          | 46                | 7.5   | 13.4                | 12.5                | 10.0                | 8.8                 |
|                          | 50                | 10.0  | 14.3                | 12.5                | 10.0                | 8.8                 |
|                          | 55                | 12.5  | 15.1                | 12.5                | 10.0                | 8.8                 |
|                          | 60                | 15.5  | 16.0                | 12.5                | 10.0                | 8.8                 |
| 125<br>(16.0)            | -4                | -20.0 | 8.2                 | 8.0                 | 8.0                 | 8.0                 |
|                          | 5                 | -15.0 | 9.9                 | 9.8                 | 9.6                 | 9.4                 |
|                          | 14                | -10.0 | 11.7                | 11.5                | 11.2                | 11.0                |
|                          | 23                | -5.0  | 13.4                | 13.3                | 12.8                | 11.2                |
|                          | 32                | 0.0   | 15.1                | 15.0                | 12.8                | 11.2                |
|                          | 37                | 2.5   | 16.0                | 15.8                | 12.8                | 11.2                |
|                          | 43                | 6.0   | 16.6                | 16.0                | 12.8                | 11.2                |
|                          | 46                | 7.5   | 17.2                | 16.0                | 12.8                | 11.2                |
|                          | 50                | 10.0  | 18.2                | 16.0                | 12.8                | 11.2                |
|                          | 55                | 12.5  | 19.3                | 16.0                | 12.8                | 11.2                |
|                          | 60                | 15.5  | 20.5                | 16.0                | 12.8                | 11.2                |
| 140<br>(18.0)            | -4                | -20.0 | 9.3                 | 9.0                 | 9.0                 | 9.0                 |
|                          | 5                 | -15.0 | 11.2                | 11.0                | 10.8                | 10.6                |
|                          | 14                | -10.0 | 13.1                | 13.0                | 12.6                | 12.3                |
|                          | 23                | -5.0  | 15.1                | 14.9                | 14.4                | 12.6                |
|                          | 32                | 0.0   | 17.0                | 16.9                | 14.4                | 12.6                |
|                          | 37                | 2.5   | 18.0                | 17.8                | 14.4                | 12.6                |
|                          | 43                | 6.0   | 18.7                | 18.0                | 14.4                | 12.6                |
|                          | 46                | 7.5   | 19.4                | 18.0                | 14.4                | 12.6                |
|                          | 50                | 10.0  | 20.5                | 18.0                | 14.4                | 12.6                |
|                          | 55                | 12.5  | 21.7                | 18.0                | 14.4                | 12.6                |
|                          | 60                | 15.5  | 23.0                | 18.0                | 14.4                | 12.6                |
| 200<br>(25.0)            | -4                | -20.0 | 12.9                | 12.5                | 12.5                | 12.5                |
|                          | 5                 | -15.0 | 15.5                | 15.3                | 15.0                | 14.8                |
|                          | 14                | -10.0 | 18.3                | 18.0                | 17.5                | 17.1                |
|                          | 23                | -5.0  | 21.0                | 20.8                | 20.0                | 17.5                |
|                          | 32                | 0.0   | 23.6                | 23.5                | 20.0                | 17.5                |
|                          | 37                | 2.5   | 25.0                | 24.8                | 20.0                | 17.5                |
|                          | 43                | 6.0   | 26.0                | 25.0                | 20.0                | 17.5                |
|                          | 46                | 7.5   | 26.9                | 25.0                | 20.0                | 17.5                |
|                          | 50                | 10.0  | 28.5                | 25.0                | 20.0                | 17.5                |
|                          | 55                | 12.5  | 30.1                | 25.0                | 20.0                | 17.5                |
|                          | 60                | 15.5  | 32.0                | 25.0                | 20.0                | 17.5                |
| 250<br>(31.5)            | -4                | -20.0 | 16.2                | 15.8                | 15.8                | 15.8                |
|                          | 5                 | -15.0 | 19.5                | 19.2                | 18.9                | 18.6                |
|                          | 14                | -10.0 | 23.0                | 22.7                | 22.1                | 21.6                |
|                          | 23                | -5.0  | 26.5                | 26.1                | 25.2                | 22.1                |
|                          | 32                | 0.0   | 29.8                | 29.6                | 25.2                | 22.1                |
|                          | 37                | 2.5   | 31.5                | 31.2                | 25.2                | 22.1                |
|                          | 43                | 6.0   | 32.8                | 31.5                | 25.2                | 22.1                |
|                          | 46                | 7.5   | 33.9                | 31.5                | 25.2                | 22.1                |
|                          | 50                | 10.0  | 35.9                | 31.5                | 25.2                | 22.1                |
|                          | 55                | 12.5  | 38.0                | 31.5                | 25.2                | 22.1                |
|                          | 60                | 15.5  | 40.3                | 31.5                | 25.2                | 22.1                |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## X2. Heating capacity with PUHY-RP300-400Y(S)JM/PURY-RP300YJM

SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp.    |                     |                     |                     |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
|                          |                   |       | 59 °FDB<br>15.0°CDB | 68 °FDB<br>20.0°CDB | 77 °FDB<br>25.0°CDB | 81 °FDB<br>27.0°CDB |
|                          | °FWB              | °CWB  | SHC                 | SHC                 | SHC                 | SHC                 |
| 15<br>(1.7)              | -4                | -20.0 | 1.0                 | 1.0                 | 1.0                 | 0.9                 |
|                          | 5                 | -15.0 | 1.1                 | 1.1                 | 1.1                 | 1.1                 |
|                          | 14                | -10.0 | 1.4                 | 1.4                 | 1.3                 | 1.3                 |
|                          | 23                | -5.0  | 1.5                 | 1.5                 | 1.4                 | 1.4                 |
|                          | 32                | 0.0   | 1.7                 | 1.7                 | 1.5                 | 1.4                 |
|                          | 37                | 2.5   | 1.8                 | 1.8                 | 1.5                 | 1.4                 |
|                          | 43                | 6.0   | 2.0                 | 1.9                 | 1.5                 | 1.4                 |
|                          | 46                | 7.5   | 2.1                 | 1.9                 | 1.5                 | 1.4                 |
|                          | 50                | 10.0  | 2.1                 | 1.9                 | 1.5                 | 1.4                 |
|                          | 55                | 12.5  | 2.2                 | 1.9                 | 1.5                 | 1.4                 |
|                          | 60                | 15.5  | 2.2                 | 1.9                 | 1.5                 | 1.4                 |
| 20<br>(2.5)              | -4                | -20.0 | 1.3                 | 1.3                 | 1.3                 | 1.2                 |
|                          | 5                 | -15.0 | 1.5                 | 1.5                 | 1.5                 | 1.5                 |
|                          | 14                | -10.0 | 1.8                 | 1.8                 | 1.7                 | 1.6                 |
|                          | 23                | -5.0  | 2.0                 | 2.0                 | 1.9                 | 1.6                 |
|                          | 32                | 0.0   | 2.3                 | 2.3                 | 1.9                 | 1.6                 |
|                          | 37                | 2.5   | 2.4                 | 2.4                 | 1.9                 | 1.6                 |
|                          | 43                | 6.0   | 2.6                 | 2.5                 | 1.9                 | 1.6                 |
|                          | 46                | 7.5   | 2.7                 | 2.5                 | 1.9                 | 1.6                 |
|                          | 50                | 10.0  | 2.8                 | 2.5                 | 1.9                 | 1.6                 |
|                          | 55                | 12.5  | 2.9                 | 2.5                 | 1.9                 | 1.6                 |
|                          | 60                | 15.5  | 2.9                 | 2.5                 | 1.9                 | 1.6                 |
| 25<br>(3.2)              | -4                | -20.0 | 1.7                 | 1.6                 | 1.6                 | 1.5                 |
|                          | 5                 | -15.0 | 1.9                 | 1.9                 | 1.9                 | 1.9                 |
|                          | 14                | -10.0 | 2.2                 | 2.2                 | 2.2                 | 2.0                 |
|                          | 23                | -5.0  | 2.6                 | 2.6                 | 2.4                 | 2.0                 |
|                          | 32                | 0.0   | 2.9                 | 2.9                 | 2.4                 | 2.0                 |
|                          | 37                | 2.5   | 3.1                 | 3.0                 | 2.4                 | 2.0                 |
|                          | 43                | 6.0   | 3.3                 | 3.2                 | 2.4                 | 2.0                 |
|                          | 46                | 7.5   | 3.4                 | 3.2                 | 2.4                 | 2.0                 |
|                          | 50                | 10.0  | 3.5                 | 3.2                 | 2.4                 | 2.0                 |
|                          | 55                | 12.5  | 3.7                 | 3.2                 | 2.4                 | 2.0                 |
|                          | 60                | 15.5  | 3.7                 | 3.2                 | 2.4                 | 2.0                 |
| 32<br>(4.0)              | -4                | -20.0 | 2.1                 | 2.0                 | 2.0                 | 1.9                 |
|                          | 5                 | -15.0 | 2.4                 | 2.4                 | 2.4                 | 2.3                 |
|                          | 14                | -10.0 | 2.8                 | 2.8                 | 2.7                 | 2.6                 |
|                          | 23                | -5.0  | 3.2                 | 3.2                 | 3.0                 | 2.6                 |
|                          | 32                | 0.0   | 3.6                 | 3.6                 | 3.0                 | 2.6                 |
|                          | 37                | 2.5   | 3.8                 | 3.8                 | 3.0                 | 2.6                 |
|                          | 43                | 6.0   | 4.1                 | 4.0                 | 3.0                 | 2.6                 |
|                          | 46                | 7.5   | 4.2                 | 4.0                 | 3.0                 | 2.6                 |
|                          | 50                | 10.0  | 4.4                 | 4.0                 | 3.0                 | 2.6                 |
|                          | 55                | 12.5  | 4.6                 | 4.0                 | 3.0                 | 2.6                 |
|                          | 60                | 15.5  | 4.6                 | 4.0                 | 3.0                 | 2.6                 |
| 40<br>(5.0)              | -4                | -20.0 | 2.6                 | 2.5                 | 2.5                 | 2.4                 |
|                          | 5                 | -15.0 | 3.0                 | 3.0                 | 3.0                 | 2.9                 |
|                          | 14                | -10.0 | 3.5                 | 3.5                 | 3.4                 | 3.2                 |
|                          | 23                | -5.0  | 4.0                 | 4.0                 | 3.8                 | 3.2                 |
|                          | 32                | 0.0   | 4.5                 | 4.5                 | 3.8                 | 3.2                 |
|                          | 37                | 2.5   | 4.8                 | 4.7                 | 3.8                 | 3.2                 |
|                          | 43                | 6.0   | 5.1                 | 5.0                 | 3.8                 | 3.2                 |
|                          | 46                | 7.5   | 5.3                 | 5.0                 | 3.8                 | 3.2                 |
|                          | 50                | 10.0  | 5.5                 | 5.0                 | 3.8                 | 3.2                 |
|                          | 55                | 12.5  | 5.8                 | 5.0                 | 3.8                 | 3.2                 |
|                          | 60                | 15.5  | 5.8                 | 5.0                 | 3.8                 | 3.2                 |
| 50<br>(6.3)              | -4                | -20.0 | 3.3                 | 3.2                 | 3.2                 | 3.0                 |
|                          | 5                 | -15.0 | 3.8                 | 3.8                 | 3.8                 | 3.7                 |
|                          | 14                | -10.0 | 4.4                 | 4.4                 | 4.3                 | 4.0                 |
|                          | 23                | -5.0  | 5.0                 | 5.0                 | 4.7                 | 4.0                 |
|                          | 32                | 0.0   | 5.7                 | 5.7                 | 4.7                 | 4.0                 |
|                          | 37                | 2.5   | 6.0                 | 6.0                 | 4.7                 | 4.0                 |
|                          | 43                | 6.0   | 6.5                 | 6.3                 | 4.7                 | 4.0                 |
|                          | 46                | 7.5   | 6.7                 | 6.3                 | 4.7                 | 4.0                 |
|                          | 50                | 10.0  | 7.0                 | 6.3                 | 4.7                 | 4.0                 |
|                          | 55                | 12.5  | 7.2                 | 6.3                 | 4.7                 | 4.0                 |
|                          | 60                | 15.5  | 7.2                 | 6.3                 | 4.7                 | 4.0                 |
| 63<br>(8.0)              | -4                | -20.0 | 4.2                 | 4.0                 | 4.0                 | 3.8                 |
|                          | 5                 | -15.0 | 4.8                 | 4.8                 | 4.8                 | 4.6                 |
|                          | 14                | -10.0 | 5.6                 | 5.6                 | 5.5                 | 5.1                 |
|                          | 23                | -5.0  | 6.4                 | 6.4                 | 6.0                 | 5.1                 |
|                          | 32                | 0.0   | 7.2                 | 7.2                 | 6.0                 | 5.1                 |
|                          | 37                | 2.5   | 7.6                 | 7.6                 | 6.0                 | 5.1                 |
|                          | 43                | 6.0   | 8.2                 | 8.0                 | 6.0                 | 5.1                 |
|                          | 46                | 7.5   | 8.5                 | 8.0                 | 6.0                 | 5.1                 |
|                          | 50                | 10.0  | 8.8                 | 8.0                 | 6.0                 | 5.1                 |
|                          | 55                | 12.5  | 9.2                 | 8.0                 | 6.0                 | 5.1                 |
|                          | 60                | 15.5  | 9.2                 | 8.0                 | 6.0                 | 5.1                 |

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp.    |                     |                     |                     |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
|                          |                   |       | 59 °FDB<br>15.0°CDB | 68 °FDB<br>20.0°CDB | 77 °FDB<br>25.0°CDB | 81 °FDB<br>27.0°CDB |
|                          | °FWB              | °CWB  | SHC                 | SHC                 | SHC                 | SHC                 |
| 71<br>(9.0)              | -4                | -20.0 | 4.7                 | 4.5                 | 4.5                 | 4.3                 |
|                          | 5                 | -15.0 | 5.4                 | 5.4                 | 5.4                 | 5.2                 |
|                          | 14                | -10.0 | 6.3                 | 6.3                 | 6.2                 | 5.8                 |
|                          | 23                | -5.0  | 7.2                 | 7.2                 | 6.8                 | 5.8                 |
|                          | 32                | 0.0   | 8.1                 | 8.1                 | 6.8                 | 5.8                 |
|                          | 37                | 2.5   | 8.6                 | 8.5                 | 6.8                 | 5.8                 |
|                          | 43                | 6.0   | 9.2                 | 9.0                 | 6.8                 | 5.8                 |
|                          | 46                | 7.5   | 9.5                 | 9.0                 | 6.8                 | 5.8                 |
|                          | 50                | 10.0  | 9.9                 | 9.0                 | 6.8                 | 5.8                 |
|                          | 55                | 12.5  | 10.4                | 9.0                 | 6.8                 | 5.8                 |
|                          | 60                | 15.5  | 10.4                | 9.0                 | 6.8                 | 5.8                 |
| 80<br>(10.0)             | -4                | -20.0 | 5.2                 | 5.0                 | 5.0                 | 4.8                 |
|                          | 5                 | -15.0 | 6.0                 | 6.0                 | 6.0                 | 5.8                 |
|                          | 14                | -10.0 | 7.0                 | 7.0                 | 6.9                 | 6.4                 |
|                          | 23                | -5.0  | 8.0                 | 8.0                 | 7.5                 | 6.4                 |
|                          | 32                | 0.0   | 9.0                 | 9.0                 | 7.5                 | 6.4                 |
|                          | 37                | 2.5   | 9.6                 | 9.5                 | 7.5                 | 6.4                 |
|                          | 43                | 6.0   | 10.3                | 10.0                | 7.5                 | 6.4                 |
|                          | 46                | 7.5   | 10.6                | 10.0                | 7.5                 | 6.4                 |
|                          | 50                | 10.0  | 11.1                | 10.0                | 7.5                 | 6.4                 |
|                          | 55                | 12.5  | 11.5                | 10.0                | 7.5                 | 6.4                 |
|                          | 60                | 15.5  | 11.5                | 10.0                | 7.5                 | 6.4                 |
| 100<br>(12.5)            | -4                | -20.0 | 6.5                 | 6.3                 | 6.3                 | 6.0                 |
|                          | 5                 | -15.0 | 7.5                 | 7.5                 | 7.5                 | 7.3                 |
|                          | 14                | -10.0 | 8.8                 | 8.8                 | 8.6                 | 8.0                 |
|                          | 23                | -5.0  | 10.0                | 10.0                | 9.4                 | 8.0                 |
|                          | 32                | 0.0   | 11.3                | 11.3                | 9.4                 | 8.0                 |
|                          | 37                | 2.5   | 11.9                | 11.8                | 9.4                 | 8.0                 |
|                          | 43                | 6.0   | 12.8                | 12.5                | 9.4                 | 8.0                 |
|                          | 46                | 7.5   | 13.3                | 12.5                | 9.4                 | 8.0                 |
|                          | 50                | 10.0  | 13.8                | 12.5                | 9.4                 | 8.0                 |
|                          | 55                | 12.5  | 14.4                | 12.5                | 9.4                 | 8.0                 |
|                          | 60                | 15.5  | 14.4                | 12.5                | 9.4                 | 8.0                 |
| 125<br>(16.0)            | -4                | -20.0 | 8.3                 | 8.0                 | 8.0                 | 7.7                 |
|                          | 5                 | -15.0 | 9.6                 | 9.6                 | 9.6                 | 9.3                 |
|                          | 14                | -10.0 | 11.2                | 11.2                | 11.0                | 10.2                |
|                          | 23                | -5.0  | 12.8                | 12.8                | 12.0                | 10.2                |
|                          | 32                | 0.0   | 14.4                | 14.4                | 12.0                | 10.2                |
|                          | 37                | 2.5   | 15.3                | 15.1                | 12.0                | 10.2                |
|                          | 43                | 6.0   | 16.4                | 16.0                | 12.0                | 10.2                |
|                          | 46                | 7.5   | 17.0                | 16.0                | 12.0                | 10.2                |
|                          | 50                | 10.0  | 17.7                | 16.0                | 12.0                | 10.2                |
|                          | 55                | 12.5  | 18.4                | 16.0                | 12.0                | 10.2                |
|                          | 60                | 15.5  | 18.4                | 16.0                | 12.0                | 10.2                |
| 140<br>(18.0)            | -4                | -20.0 | 9.4                 | 9.0                 | 9.0                 | 8.6                 |
|                          | 5                 | -15.0 | 10.8                | 10.8                | 10.8                | 10.4                |
|                          | 14                | -10.0 | 12.6                | 12.6                | 12.3                | 11.5                |
|                          | 23                | -5.0  | 14.4                | 14.4                | 13.5                | 11.5                |
|                          | 32                | 0.0   | 16.2                | 16.2                | 13.5                | 11.5                |
|                          | 37                | 2.5   | 17.2                | 17.0                | 13.5                | 11.5                |
|                          | 43                | 6.0   | 18.5                | 18.0                | 13.5                | 11.5                |
|                          | 46                | 7.5   | 19.1                | 18.0                | 13.5                | 11.5                |
|                          | 50                | 10.0  | 19.9                | 18.0                | 13.5                | 11.5                |
|                          | 55                | 12.5  | 20.7                | 18.0                | 13.5                | 11.5                |
|                          | 60                | 15.5  | 20.7                | 18.0                | 13.5                | 11.5                |
| 200<br>(25.0)            | -4                | -20.0 | 13.0                | 12.5                | 12.5                | 12.0                |
|                          | 5                 | -15.0 | 15.0                | 15.0                | 15.0                | 14.5                |
|                          | 14                | -10.0 | 17.5                | 17.5                | 17.1                | 16.0                |
|                          | 23                | -5.0  | 20.0                | 20.0                | 18.8                | 16.0                |
|                          | 32                | 0.0   | 22.5                | 22.5                | 18.8                | 16.0                |
|                          | 37                | 2.5   | 23.9                | 23.6                | 18.8                | 16.0                |
|                          | 43                | 6.0   | 25.6                | 25.0                | 18.8                | 16.0                |
|                          | 46                | 7.5   | 26.5                | 25.0                | 18.8                | 16.0                |
|                          | 50                | 10.0  | 27.6                | 25.0                | 18.8                | 16.0                |
|                          | 55                | 12.5  | 28.8                | 25.0                | 18.8                | 16.0                |
|                          | 60                | 15.5  | 28.8                | 25.0                | 18.8                | 16.0                |
| 250<br>(31.5)            | -4                | -20.0 | 16.4                | 15.8                | 15.8                | 15.1                |
|                          | 5                 | -15.0 | 18.9                | 18.9                | 18.9                | 18.3                |
|                          | 14                | -10.0 | 22.1                | 22.1                | 21.6                | 20.2                |
|                          | 23                | -5.0  | 25.2                | 25.2                | 23.6                | 20.2                |
|                          | 32                | 0.0   | 28.4                | 28.4                | 23.6                | 20.2                |
|                          | 37                | 2.5   | 30.1                | 29.8                | 23.6                | 20.2                |
|                          | 43                | 6.0   | 32.3                | 31.5                | 23.6                | 20.2                |
|                          | 46                | 7.5   | 33.4                | 31.5                | 23.6                | 20.2                |
|                          | 50                | 10.0  | 34.8                | 31.5                | 23.6                | 20.2                |
|                          | 55                | 12.5  | 36.2                | 31.5                | 23.6                | 20.2                |
|                          | 60                | 15.5  | 36.2                | 31.5                | 23.6                | 20.2                |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## X3. Heating capacity with PUHY-RP450-650YSJM

SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp. |          |          |          |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
|                          |                   |       | 59 °FDB          | 68 °FDB  | 77 °FDB  | 81 °FDB  |
|                          | °FWB              | °CWB  | 15.0°CDB         | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 15<br>(1.7)              | -4                | -20.0 | 1.0              | 1.0      | 1.0      | 1.0      |
|                          | 5                 | -15.0 | 1.2              | 1.1      | 1.1      | 1.1      |
|                          | 14                | -10.0 | 1.4              | 1.4      | 1.3      | 1.3      |
|                          | 23                | -5.0  | 1.6              | 1.5      | 1.4      | 1.4      |
|                          | 32                | 0.0   | 1.7              | 1.7      | 1.5      | 1.4      |
|                          | 37                | 2.5   | 1.8              | 1.8      | 1.5      | 1.4      |
|                          | 43                | 6.0   | 2.0              | 1.9      | 1.5      | 1.4      |
|                          | 46                | 7.5   | 2.1              | 1.9      | 1.5      | 1.4      |
|                          | 50                | 10.0  | 2.1              | 1.9      | 1.5      | 1.4      |
|                          | 55                | 12.5  | 2.2              | 1.9      | 1.5      | 1.4      |
|                          | 60                | 15.5  | 2.2              | 1.9      | 1.5      | 1.4      |
| 20<br>(2.5)              | -4                | -20.0 | 1.3              | 1.3      | 1.3      | 1.3      |
|                          | 5                 | -15.0 | 1.6              | 1.5      | 1.5      | 1.5      |
|                          | 14                | -10.0 | 1.8              | 1.8      | 1.7      | 1.7      |
|                          | 23                | -5.0  | 2.1              | 2.0      | 1.9      | 1.8      |
|                          | 32                | 0.0   | 2.3              | 2.3      | 2.0      | 1.8      |
|                          | 37                | 2.5   | 2.4              | 2.4      | 2.0      | 1.8      |
|                          | 43                | 6.0   | 2.6              | 2.5      | 2.0      | 1.8      |
|                          | 46                | 7.5   | 2.7              | 2.5      | 2.0      | 1.8      |
|                          | 50                | 10.0  | 2.8              | 2.5      | 2.0      | 1.8      |
|                          | 55                | 12.5  | 2.9              | 2.5      | 2.0      | 1.8      |
|                          | 60                | 15.5  | 2.9              | 2.5      | 2.0      | 1.8      |
| 25<br>(3.2)              | -4                | -20.0 | 1.7              | 1.6      | 1.6      | 1.6      |
|                          | 5                 | -15.0 | 2.0              | 1.9      | 1.9      | 1.9      |
|                          | 14                | -10.0 | 2.3              | 2.2      | 2.2      | 2.1      |
|                          | 23                | -5.0  | 2.6              | 2.6      | 2.5      | 2.3      |
|                          | 32                | 0.0   | 2.9              | 2.9      | 2.5      | 2.3      |
|                          | 37                | 2.5   | 3.1              | 3.0      | 2.5      | 2.3      |
|                          | 43                | 6.0   | 3.3              | 3.2      | 2.5      | 2.3      |
|                          | 46                | 7.5   | 3.4              | 3.2      | 2.5      | 2.3      |
|                          | 50                | 10.0  | 3.6              | 3.2      | 2.5      | 2.3      |
|                          | 55                | 12.5  | 3.7              | 3.2      | 2.5      | 2.3      |
|                          | 60                | 15.5  | 3.7              | 3.2      | 2.5      | 2.3      |
| 32<br>(4.0)              | -4                | -20.0 | 2.1              | 2.0      | 2.0      | 2.0      |
|                          | 5                 | -15.0 | 2.5              | 2.4      | 2.4      | 2.3      |
|                          | 14                | -10.0 | 2.9              | 2.8      | 2.7      | 2.6      |
|                          | 23                | -5.0  | 3.3              | 3.2      | 3.1      | 2.8      |
|                          | 32                | 0.0   | 3.7              | 3.6      | 3.2      | 2.8      |
|                          | 37                | 2.5   | 3.8              | 3.8      | 3.2      | 2.8      |
|                          | 43                | 6.0   | 4.1              | 4.0      | 3.2      | 2.8      |
|                          | 46                | 7.5   | 4.2              | 4.0      | 3.2      | 2.8      |
|                          | 50                | 10.0  | 4.4              | 4.0      | 3.2      | 2.8      |
|                          | 55                | 12.5  | 4.6              | 4.0      | 3.2      | 2.8      |
|                          | 60                | 15.5  | 4.6              | 4.0      | 3.2      | 2.8      |
| 40<br>(5.0)              | -4                | -20.0 | 2.7              | 2.6      | 2.6      | 2.5      |
|                          | 5                 | -15.0 | 3.1              | 3.0      | 3.0      | 2.9      |
|                          | 14                | -10.0 | 3.6              | 3.5      | 3.4      | 3.3      |
|                          | 23                | -5.0  | 4.1              | 4.0      | 3.9      | 3.5      |
|                          | 32                | 0.0   | 4.6              | 4.5      | 4.0      | 3.5      |
|                          | 37                | 2.5   | 4.8              | 4.8      | 4.0      | 3.5      |
|                          | 43                | 6.0   | 5.2              | 5.0      | 4.0      | 3.5      |
|                          | 46                | 7.5   | 5.3              | 5.0      | 4.0      | 3.5      |
|                          | 50                | 10.0  | 5.6              | 5.0      | 4.0      | 3.5      |
|                          | 55                | 12.5  | 5.8              | 5.0      | 4.0      | 3.5      |
|                          | 60                | 15.5  | 5.8              | 5.0      | 4.0      | 3.5      |
| 50<br>(6.3)              | -4                | -20.0 | 3.3              | 3.2      | 3.2      | 3.2      |
|                          | 5                 | -15.0 | 3.9              | 3.8      | 3.8      | 3.7      |
|                          | 14                | -10.0 | 4.5              | 4.4      | 4.3      | 4.2      |
|                          | 23                | -5.0  | 5.2              | 5.0      | 4.9      | 4.4      |
|                          | 32                | 0.0   | 5.8              | 5.7      | 5.0      | 4.4      |
|                          | 37                | 2.5   | 6.0              | 6.0      | 5.0      | 4.4      |
|                          | 43                | 6.0   | 6.5              | 6.3      | 5.0      | 4.4      |
|                          | 46                | 7.5   | 6.7              | 6.3      | 5.0      | 4.4      |
|                          | 50                | 10.0  | 7.0              | 6.3      | 5.0      | 4.4      |
|                          | 55                | 12.5  | 7.3              | 6.3      | 5.0      | 4.4      |
|                          | 60                | 15.5  | 7.3              | 6.3      | 5.0      | 4.4      |
| 63<br>(8.0)              | -4                | -20.0 | 4.2              | 4.1      | 4.1      | 4.0      |
|                          | 5                 | -15.0 | 5.0              | 4.8      | 4.8      | 4.6      |
|                          | 14                | -10.0 | 5.8              | 5.6      | 5.4      | 5.3      |
|                          | 23                | -5.0  | 6.6              | 6.4      | 6.2      | 5.6      |
|                          | 32                | 0.0   | 7.4              | 7.2      | 6.4      | 5.6      |
|                          | 37                | 2.5   | 7.7              | 7.6      | 6.4      | 5.6      |
|                          | 43                | 6.0   | 8.2              | 8.0      | 6.4      | 5.6      |
|                          | 46                | 7.5   | 8.5              | 8.0      | 6.4      | 5.6      |
|                          | 50                | 10.0  | 8.9              | 8.0      | 6.4      | 5.6      |
|                          | 55                | 12.5  | 9.3              | 8.0      | 6.4      | 5.6      |
|                          | 60                | 15.5  | 9.3              | 8.0      | 6.4      | 5.6      |

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp. |          |          |          |
|--------------------------|-------------------|-------|------------------|----------|----------|----------|
|                          |                   |       | 59 °FDB          | 68 °FDB  | 77 °FDB  | 81 °FDB  |
|                          | °FWB              | °CWB  | 15.0°CDB         | 20.0°CDB | 25.0°CDB | 27.0°CDB |
| 71<br>(9.0)              | -4                | -20.0 | 4.8              | 4.6      | 4.6      | 4.5      |
|                          | 5                 | -15.0 | 5.6              | 5.4      | 5.4      | 5.2      |
|                          | 14                | -10.0 | 6.5              | 6.3      | 6.1      | 5.9      |
|                          | 23                | -5.0  | 7.4              | 7.2      | 6.9      | 6.3      |
|                          | 32                | 0.0   | 8.3              | 8.1      | 7.2      | 6.3      |
|                          | 37                | 2.5   | 8.6              | 8.6      | 7.2      | 6.3      |
|                          | 43                | 6.0   | 9.3              | 9.0      | 7.2      | 6.3      |
|                          | 46                | 7.5   | 9.5              | 9.0      | 7.2      | 6.3      |
|                          | 50                | 10.0  | 10.0             | 9.0      | 7.2      | 6.3      |
|                          | 55                | 12.5  | 10.4             | 9.0      | 7.2      | 6.3      |
|                          | 60                | 15.5  | 10.4             | 9.0      | 7.2      | 6.3      |
| 80<br>(10.0)             | -4                | -20.0 | 5.3              | 5.1      | 5.1      | 5.0      |
|                          | 5                 | -15.0 | 6.3              | 6.1      | 6.0      | 5.8      |
|                          | 14                | -10.0 | 7.2              | 7.0      | 6.8      | 6.6      |
|                          | 23                | -5.0  | 8.2              | 8.0      | 7.7      | 7.1      |
|                          | 32                | 0.0   | 9.2              | 9.0      | 8.0      | 7.1      |
|                          | 37                | 2.5   | 9.6              | 9.5      | 8.0      | 7.1      |
|                          | 43                | 6.0   | 10.3             | 10.0     | 8.0      | 7.1      |
|                          | 46                | 7.5   | 10.6             | 10.0     | 8.0      | 7.1      |
|                          | 50                | 10.0  | 11.1             | 10.0     | 8.0      | 7.1      |
|                          | 55                | 12.5  | 11.6             | 10.0     | 8.0      | 7.1      |
|                          | 60                | 15.5  | 11.6             | 10.0     | 8.0      | 7.1      |
| 100<br>(12.5)            | -4                | -20.0 | 6.6              | 6.4      | 6.4      | 6.3      |
|                          | 5                 | -15.0 | 7.8              | 7.6      | 7.5      | 7.3      |
|                          | 14                | -10.0 | 9.0              | 8.8      | 8.5      | 8.3      |
|                          | 23                | -5.0  | 10.3             | 10.0     | 9.6      | 8.8      |
|                          | 32                | 0.0   | 11.5             | 11.3     | 9.9      | 8.8      |
|                          | 37                | 2.5   | 12.0             | 11.9     | 9.9      | 8.8      |
|                          | 43                | 6.0   | 12.9             | 12.5     | 9.9      | 8.8      |
|                          | 46                | 7.5   | 13.3             | 12.5     | 9.9      | 8.8      |
|                          | 50                | 10.0  | 13.9             | 12.5     | 9.9      | 8.8      |
|                          | 55                | 12.5  | 14.5             | 12.5     | 9.9      | 8.8      |
|                          | 60                | 15.5  | 14.5             | 12.5     | 9.9      | 8.8      |
| 125<br>(16.0)            | -4                | -20.0 | 8.5              | 8.2      | 8.2      | 8.0      |
|                          | 5                 | -15.0 | 10.0             | 9.7      | 9.6      | 9.3      |
|                          | 14                | -10.0 | 11.5             | 11.2     | 10.9     | 10.6     |
|                          | 23                | -5.0  | 13.1             | 12.8     | 12.3     | 11.3     |
|                          | 32                | 0.0   | 14.7             | 14.4     | 12.7     | 11.3     |
|                          | 37                | 2.5   | 15.4             | 15.2     | 12.7     | 11.3     |
|                          | 43                | 6.0   | 16.5             | 16.0     | 12.7     | 11.3     |
|                          | 46                | 7.5   | 17.0             | 16.0     | 12.7     | 11.3     |
|                          | 50                | 10.0  | 17.8             | 16.0     | 12.7     | 11.3     |
|                          | 55                | 12.5  | 18.6             | 16.0     | 12.7     | 11.3     |
|                          | 60                | 15.5  | 18.6             | 16.0     | 12.7     | 11.3     |
| 140<br>(18.0)            | -4                | -20.0 | 9.5              | 9.2      | 9.2      | 9.0      |
|                          | 5                 | -15.0 | 11.3             | 10.9     | 10.8     | 10.4     |
|                          | 14                | -10.0 | 13.0             | 12.6     | 12.2     | 11.9     |
|                          | 23                | -5.0  | 14.8             | 14.4     | 13.9     | 12.7     |
|                          | 32                | 0.0   | 16.6             | 16.2     | 14.3     | 12.7     |
|                          | 37                | 2.5   | 17.3             | 17.1     | 14.3     | 12.7     |
|                          | 43                | 6.0   | 18.5             | 18.0     | 14.3     | 12.7     |
|                          | 46                | 7.5   | 19.1             | 18.0     | 14.3     | 12.7     |
|                          | 50                | 10.0  | 20.0             | 18.0     | 14.3     | 12.7     |
|                          | 55                | 12.5  | 20.9             | 18.0     | 14.3     | 12.7     |
|                          | 60                | 15.5  | 20.9             | 18.0     | 14.3     | 12.7     |
| 200<br>(25.0)            | -4                | -20.0 | 13.3             | 12.8     | 12.8     | 12.5     |
|                          | 5                 | -15.0 | 15.6             | 15.1     | 15.0     | 14.5     |
|                          | 14                | -10.0 | 18.0             | 17.5     | 17.0     | 16.5     |
|                          | 23                | -5.0  | 20.5             | 20.0     | 19.3     | 17.6     |
|                          | 32                | 0.0   | 23.0             | 22.5     | 19.9     | 17.6     |
|                          | 37                | 2.5   | 24.0             | 23.8     | 19.9     | 17.6     |
|                          | 43                | 6.0   | 25.8             | 25.0     | 19.9     | 17.6     |
|                          | 46                | 7.5   | 26.5             | 25.0     | 19.9     | 17.6     |
|                          | 50                | 10.0  | 27.8             | 25.0     | 19.9     | 17.6     |
|                          | 55                | 12.5  | 29.0             | 25.0     | 19.9     | 17.6     |
|                          | 60                | 15.5  | 29.0             | 25.0     | 19.9     | 17.6     |
| 250<br>(31.5)            | -4                | -20.0 | 16.7             | 16.1     | 16.1     | 15.8     |
|                          | 5                 | -15.0 | 19.7             | 19.1     | 18.9     | 18.3     |
|                          | 14                | -10.0 | 22.7             | 22.1     | 21.4     | 20.8     |
|                          | 23                | -5.0  | 25.8             | 25.2     | 24.3     | 22.2     |
|                          | 32                | 0.0   | 29.0             | 28.4     | 25.0     | 22.2     |
|                          | 37                | 2.5   | 30.2             | 29.9     | 25.0     | 22.2     |
|                          | 43                | 6.0   | 32.4             | 31.5     | 25.0     | 22.2     |
|                          | 46                | 7.5   | 33.4             | 31.5     | 25.0     | 22.2     |
|                          | 50                | 10.0  | 35.0             | 31.5     | 25.0     | 22.2     |
|                          | 55                | 12.5  | 36.5             | 31.5     | 25.0     | 22.2     |
|                          | 60                | 15.5  | 36.5             | 31.5     | 25.0     | 22.2     |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## X4. Heating capacity with PUHY-RP700-800YSJM

SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp.    |                     |                     |                     |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
|                          |                   |       | 59 °FDB<br>15.0°CDB | 68 °FDB<br>20.0°CDB | 77 °FDB<br>25.0°CDB | 81 °FDB<br>27.0°CDB |
|                          | °FWB              | °CWB  | SHC                 | SHC                 | SHC                 | SHC                 |
| 15<br>(1.7)              | -4                | -20.0 | 1.0                 | 1.0                 | 1.0                 | 0.9                 |
|                          | 5                 | -15.0 | 1.1                 | 1.1                 | 1.1                 | 1.1                 |
|                          | 14                | -10.0 | 1.4                 | 1.4                 | 1.3                 | 1.2                 |
|                          | 23                | -5.0  | 1.5                 | 1.5                 | 1.4                 | 1.2                 |
|                          | 32                | 0.0   | 1.7                 | 1.7                 | 1.4                 | 1.2                 |
|                          | 37                | 2.5   | 1.8                 | 1.8                 | 1.4                 | 1.2                 |
|                          | 43                | 6.0   | 2.0                 | 1.9                 | 1.4                 | 1.2                 |
|                          | 46                | 7.5   | 2.1                 | 1.9                 | 1.4                 | 1.2                 |
|                          | 50                | 10.0  | 2.1                 | 1.9                 | 1.4                 | 1.2                 |
|                          | 55                | 12.5  | 2.2                 | 1.9                 | 1.4                 | 1.2                 |
|                          | 60                | 15.5  | 2.2                 | 1.9                 | 1.4                 | 1.2                 |
| 20<br>(2.5)              | -4                | -20.0 | 1.3                 | 1.3                 | 1.3                 | 1.2                 |
|                          | 5                 | -15.0 | 1.5                 | 1.5                 | 1.5                 | 1.5                 |
|                          | 14                | -10.0 | 1.8                 | 1.8                 | 1.7                 | 1.7                 |
|                          | 23                | -5.0  | 2.0                 | 2.0                 | 1.9                 | 1.8                 |
|                          | 32                | 0.0   | 2.3                 | 2.2                 | 2.0                 | 1.8                 |
|                          | 37                | 2.5   | 2.4                 | 2.4                 | 2.0                 | 1.8                 |
|                          | 43                | 6.0   | 2.6                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 46                | 7.5   | 2.7                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 50                | 10.0  | 2.8                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 55                | 12.5  | 2.9                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 60                | 15.5  | 2.9                 | 2.5                 | 2.0                 | 1.8                 |
| 25<br>(3.2)              | -4                | -20.0 | 1.6                 | 1.6                 | 1.6                 | 1.6                 |
|                          | 5                 | -15.0 | 2.0                 | 1.9                 | 1.9                 | 1.9                 |
|                          | 14                | -10.0 | 2.3                 | 2.2                 | 2.2                 | 2.1                 |
|                          | 23                | -5.0  | 2.6                 | 2.6                 | 2.5                 | 2.4                 |
|                          | 32                | 0.0   | 2.9                 | 2.9                 | 2.5                 | 2.4                 |
|                          | 37                | 2.5   | 3.1                 | 3.0                 | 2.5                 | 2.4                 |
|                          | 43                | 6.0   | 3.3                 | 3.2                 | 2.5                 | 2.4                 |
|                          | 46                | 7.5   | 3.4                 | 3.2                 | 2.5                 | 2.4                 |
|                          | 50                | 10.0  | 3.6                 | 3.2                 | 2.5                 | 2.4                 |
|                          | 55                | 12.5  | 3.7                 | 3.2                 | 2.5                 | 2.4                 |
|                          | 60                | 15.5  | 3.7                 | 3.2                 | 2.5                 | 2.4                 |
| 32<br>(4.0)              | -4                | -20.0 | 2.0                 | 2.0                 | 2.0                 | 2.0                 |
|                          | 5                 | -15.0 | 2.4                 | 2.4                 | 2.4                 | 2.3                 |
|                          | 14                | -10.0 | 2.8                 | 2.8                 | 2.7                 | 2.7                 |
|                          | 23                | -5.0  | 3.2                 | 3.2                 | 3.1                 | 2.9                 |
|                          | 32                | 0.0   | 3.6                 | 3.6                 | 3.2                 | 2.9                 |
|                          | 37                | 2.5   | 3.8                 | 3.8                 | 3.2                 | 2.9                 |
|                          | 43                | 6.0   | 4.1                 | 4.0                 | 3.2                 | 2.9                 |
|                          | 46                | 7.5   | 4.2                 | 4.0                 | 3.2                 | 2.9                 |
|                          | 50                | 10.0  | 4.4                 | 4.0                 | 3.2                 | 2.9                 |
|                          | 55                | 12.5  | 4.6                 | 4.0                 | 3.2                 | 2.9                 |
|                          | 60                | 15.5  | 4.6                 | 4.0                 | 3.2                 | 2.9                 |
| 40<br>(5.0)              | -4                | -20.0 | 2.5                 | 2.5                 | 2.5                 | 2.5                 |
|                          | 5                 | -15.0 | 3.1                 | 3.0                 | 3.0                 | 2.9                 |
|                          | 14                | -10.0 | 3.6                 | 3.5                 | 3.4                 | 3.4                 |
|                          | 23                | -5.0  | 4.1                 | 4.0                 | 3.9                 | 3.7                 |
|                          | 32                | 0.0   | 4.6                 | 4.5                 | 4.0                 | 3.7                 |
|                          | 37                | 2.5   | 4.8                 | 4.7                 | 4.0                 | 3.7                 |
|                          | 43                | 6.0   | 5.2                 | 5.0                 | 4.0                 | 3.7                 |
|                          | 46                | 7.5   | 5.3                 | 5.0                 | 4.0                 | 3.7                 |
|                          | 50                | 10.0  | 5.6                 | 5.0                 | 4.0                 | 3.7                 |
|                          | 55                | 12.5  | 5.8                 | 5.0                 | 4.0                 | 3.7                 |
|                          | 60                | 15.5  | 5.8                 | 5.0                 | 4.0                 | 3.7                 |
| 50<br>(6.3)              | -4                | -20.0 | 3.2                 | 3.2                 | 3.2                 | 3.1                 |
|                          | 5                 | -15.0 | 3.8                 | 3.8                 | 3.7                 | 3.7                 |
|                          | 14                | -10.0 | 4.5                 | 4.4                 | 4.3                 | 4.2                 |
|                          | 23                | -5.0  | 5.1                 | 5.0                 | 4.9                 | 4.6                 |
|                          | 32                | 0.0   | 5.7                 | 5.6                 | 5.0                 | 4.6                 |
|                          | 37                | 2.5   | 6.0                 | 5.9                 | 5.0                 | 4.6                 |
|                          | 43                | 6.0   | 6.5                 | 6.3                 | 5.0                 | 4.6                 |
|                          | 46                | 7.5   | 6.7                 | 6.3                 | 5.0                 | 4.6                 |
|                          | 50                | 10.0  | 7.0                 | 6.3                 | 5.0                 | 4.6                 |
|                          | 55                | 12.5  | 7.3                 | 6.3                 | 5.0                 | 4.6                 |
|                          | 60                | 15.5  | 7.3                 | 6.3                 | 5.0                 | 4.6                 |
| 63<br>(8.0)              | -4                | -20.0 | 4.0                 | 4.0                 | 4.0                 | 3.9                 |
|                          | 5                 | -15.0 | 4.9                 | 4.8                 | 4.8                 | 4.6                 |
|                          | 14                | -10.0 | 5.7                 | 5.6                 | 5.4                 | 5.4                 |
|                          | 23                | -5.0  | 6.5                 | 6.4                 | 6.2                 | 5.9                 |
|                          | 32                | 0.0   | 7.3                 | 7.2                 | 6.4                 | 5.9                 |
|                          | 37                | 2.5   | 7.7                 | 7.5                 | 6.4                 | 5.9                 |
|                          | 43                | 6.0   | 8.2                 | 8.0                 | 6.4                 | 5.9                 |
|                          | 46                | 7.5   | 8.5                 | 8.0                 | 6.4                 | 5.9                 |
|                          | 50                | 10.0  | 8.9                 | 8.0                 | 6.4                 | 5.9                 |
|                          | 55                | 12.5  | 9.3                 | 8.0                 | 6.4                 | 5.9                 |
|                          | 60                | 15.5  | 9.3                 | 8.0                 | 6.4                 | 5.9                 |

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp.    |                     |                     |                     |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
|                          |                   |       | 59 °FDB<br>15.0°CDB | 68 °FDB<br>20.0°CDB | 77 °FDB<br>25.0°CDB | 81 °FDB<br>27.0°CDB |
|                          | °FWB              | °CWB  | SHC                 | SHC                 | SHC                 | SHC                 |
| 71<br>(9.0)              | -4                | -20.0 | 4.5                 | 4.5                 | 4.5                 | 4.4                 |
|                          | 5                 | -15.0 | 5.5                 | 5.4                 | 5.4                 | 5.2                 |
|                          | 14                | -10.0 | 6.4                 | 6.3                 | 6.1                 | 6.0                 |
|                          | 23                | -5.0  | 7.3                 | 7.2                 | 6.9                 | 6.6                 |
|                          | 32                | 0.0   | 8.2                 | 8.1                 | 7.2                 | 6.6                 |
|                          | 37                | 2.5   | 8.6                 | 8.5                 | 7.2                 | 6.6                 |
|                          | 43                | 6.0   | 9.3                 | 9.0                 | 7.2                 | 6.6                 |
|                          | 46                | 7.5   | 9.5                 | 9.0                 | 7.2                 | 6.6                 |
|                          | 50                | 10.0  | 10.0                | 9.0                 | 7.2                 | 6.6                 |
|                          | 55                | 12.5  | 10.4                | 9.0                 | 7.2                 | 6.6                 |
|                          | 60                | 15.5  | 10.4                | 9.0                 | 7.2                 | 6.6                 |
| 80<br>(10.0)             | -4                | -20.0 | 5.0                 | 5.0                 | 4.9                 | 4.9                 |
|                          | 5                 | -15.0 | 6.1                 | 6.0                 | 6.0                 | 5.8                 |
|                          | 14                | -10.0 | 7.1                 | 7.0                 | 6.8                 | 6.7                 |
|                          | 23                | -5.0  | 8.1                 | 8.0                 | 7.7                 | 7.4                 |
|                          | 32                | 0.0   | 9.1                 | 9.0                 | 8.0                 | 7.4                 |
|                          | 37                | 2.5   | 9.6                 | 9.4                 | 8.0                 | 7.4                 |
|                          | 43                | 6.0   | 10.3                | 10.0                | 8.0                 | 7.4                 |
|                          | 46                | 7.5   | 10.6                | 10.0                | 8.0                 | 7.4                 |
|                          | 50                | 10.0  | 11.1                | 10.0                | 8.0                 | 7.4                 |
|                          | 55                | 12.5  | 11.6                | 10.0                | 8.0                 | 7.4                 |
|                          | 60                | 15.5  | 11.6                | 10.0                | 8.0                 | 7.4                 |
| 100<br>(12.5)            | -4                | -20.0 | 6.3                 | 6.3                 | 6.3                 | 6.1                 |
|                          | 5                 | -15.0 | 7.6                 | 7.5                 | 7.4                 | 7.3                 |
|                          | 14                | -10.0 | 8.9                 | 8.8                 | 8.5                 | 8.4                 |
|                          | 23                | -5.0  | 10.1                | 10.0                | 9.6                 | 9.2                 |
|                          | 32                | 0.0   | 11.4                | 11.2                | 9.9                 | 9.2                 |
|                          | 37                | 2.5   | 12.0                | 11.8                | 9.9                 | 9.2                 |
|                          | 43                | 6.0   | 12.9                | 12.5                | 9.9                 | 9.2                 |
|                          | 46                | 7.5   | 13.3                | 12.5                | 9.9                 | 9.2                 |
|                          | 50                | 10.0  | 13.9                | 12.5                | 9.9                 | 9.2                 |
|                          | 55                | 12.5  | 14.5                | 12.5                | 9.9                 | 9.2                 |
|                          | 60                | 15.5  | 14.5                | 12.5                | 9.9                 | 9.2                 |
| 125<br>(16.0)            | -4                | -20.0 | 8.0                 | 8.0                 | 8.0                 | 7.8                 |
|                          | 5                 | -15.0 | 9.8                 | 9.6                 | 9.5                 | 9.3                 |
|                          | 14                | -10.0 | 11.4                | 11.2                | 10.9                | 10.7                |
|                          | 23                | -5.0  | 13.0                | 12.8                | 12.3                | 11.8                |
|                          | 32                | 0.0   | 14.6                | 14.3                | 12.7                | 11.8                |
|                          | 37                | 2.5   | 15.4                | 15.0                | 12.7                | 11.8                |
|                          | 43                | 6.0   | 16.5                | 16.0                | 12.7                | 11.8                |
|                          | 46                | 7.5   | 17.0                | 16.0                | 12.7                | 11.8                |
|                          | 50                | 10.0  | 17.8                | 16.0                | 12.7                | 11.8                |
|                          | 55                | 12.5  | 18.6                | 16.0                | 12.7                | 11.8                |
|                          | 60                | 15.5  | 18.6                | 16.0                | 12.7                | 11.8                |
| 140<br>(18.0)            | -4                | -20.0 | 9.0                 | 9.0                 | 9.0                 | 8.8                 |
|                          | 5                 | -15.0 | 11.0                | 10.8                | 10.7                | 10.4                |
|                          | 14                | -10.0 | 12.8                | 12.6                | 12.2                | 12.1                |
|                          | 23                | -5.0  | 14.6                | 14.4                | 13.9                | 13.2                |
|                          | 32                | 0.0   | 16.4                | 16.1                | 14.3                | 13.2                |
|                          | 37                | 2.5   | 17.3                | 16.9                | 14.3                | 13.2                |
|                          | 43                | 6.0   | 18.5                | 18.0                | 14.3                | 13.2                |
|                          | 46                | 7.5   | 19.1                | 18.0                | 14.3                | 13.2                |
|                          | 50                | 10.0  | 20.0                | 18.0                | 14.3                | 13.2                |
|                          | 55                | 12.5  | 20.9                | 18.0                | 14.3                | 13.2                |
|                          | 60                | 15.5  | 20.9                | 18.0                | 14.3                | 13.2                |
| 200<br>(25.0)            | -4                | -20.0 | 12.5                | 12.5                | 12.5                | 12.3                |
|                          | 5                 | -15.0 | 15.3                | 15.0                | 14.9                | 14.5                |
|                          | 14                | -10.0 | 17.8                | 17.5                | 17.0                | 16.8                |
|                          | 23                | -5.0  | 20.3                | 20.0                | 19.3                | 18.4                |
|                          | 32                | 0.0   | 22.8                | 22.4                | 19.9                | 18.4                |
|                          | 37                | 2.5   | 24.0                | 23.5                | 19.9                | 18.4                |
|                          | 43                | 6.0   | 25.8                | 25.0                | 19.9                | 18.4                |
|                          | 46                | 7.5   | 26.5                | 25.0                | 19.9                | 18.4                |
|                          | 50                | 10.0  | 27.8                | 25.0                | 19.9                | 18.4                |
|                          | 55                | 12.5  | 29.0                | 25.0                | 19.9                | 18.4                |
|                          | 60                | 15.5  | 29.0                | 25.0                | 19.9                | 18.4                |
| 250<br>(31.5)            | -4                | -20.0 | 15.8                | 15.8                | 15.8                | 15.4                |
|                          | 5                 | -15.0 | 19.2                | 18.9                | 18.7                | 18.3                |
|                          | 14                | -10.0 | 22.4                | 22.1                | 21.4                | 21.1                |
|                          | 23                | -5.0  | 25.5                | 25.2                | 24.3                | 23.2                |
|                          | 32                | 0.0   | 28.7                | 28.2                | 25.0                | 23.2                |
|                          | 37                | 2.5   | 30.2                | 29.6                | 25.0                | 23.2                |
|                          | 43                | 6.0   | 32.4                | 31.5                | 25.0                | 23.2                |
|                          | 46                | 7.5   | 33.4                | 31.5                | 25.0                | 23.2                |
|                          | 50                | 10.0  | 35.0                | 31.5                | 25.0                | 23.2                |
|                          | 55                | 12.5  | 36.5                | 31.5                | 25.0                | 23.2                |
|                          | 60                | 15.5  | 36.5                | 31.5                | 25.0                | 23.2                |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## X5. Heating capacity with PUHY-RP850, 900YSJM

SHC : Sensible Heat Capacity(kW)

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp.    |                     |                     |                     |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
|                          |                   |       | 59 °FDB<br>15.0°CDB | 68 °FDB<br>20.0°CDB | 77 °FDB<br>25.0°CDB | 81 °FDB<br>27.0°CDB |
|                          | *FWB              | *CWB  | SHC                 | SHC                 | SHC                 | SHC                 |
| 15<br>(1.7)              | -4                | -20.0 | 1.2                 | 1.2                 | 1.1                 | 1.1                 |
|                          | 5                 | -15.0 | 1.4                 | 1.3                 | 1.3                 | 1.3                 |
|                          | 14                | -10.0 | 1.6                 | 1.5                 | 1.5                 | 1.3                 |
|                          | 23                | -5.0  | 1.7                 | 1.7                 | 1.5                 | 1.3                 |
|                          | 32                | 0.0   | 1.8                 | 1.8                 | 1.5                 | 1.3                 |
|                          | 37                | 2.5   | 2.0                 | 1.9                 | 1.5                 | 1.3                 |
|                          | 43                | 6.0   | 2.0                 | 1.9                 | 1.5                 | 1.3                 |
|                          | 46                | 7.5   | 2.1                 | 1.9                 | 1.5                 | 1.3                 |
|                          | 50                | 10.0  | 2.2                 | 1.9                 | 1.5                 | 1.3                 |
|                          | 55                | 12.5  | 2.2                 | 1.9                 | 1.5                 | 1.3                 |
|                          | 60                | 15.5  | 2.2                 | 1.9                 | 1.5                 | 1.3                 |
| 20<br>(2.2)              | -4                | -20.0 | 1.6                 | 1.5                 | 1.5                 | 1.4                 |
|                          | 5                 | -15.0 | 1.8                 | 1.8                 | 1.7                 | 1.7                 |
|                          | 14                | -10.0 | 2.0                 | 2.0                 | 1.9                 | 1.8                 |
|                          | 23                | -5.0  | 2.3                 | 2.2                 | 2.0                 | 1.8                 |
|                          | 32                | 0.0   | 2.4                 | 2.4                 | 2.0                 | 1.8                 |
|                          | 37                | 2.5   | 2.6                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 43                | 6.0   | 2.7                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 46                | 7.5   | 2.8                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 50                | 10.0  | 2.9                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 55                | 12.5  | 2.9                 | 2.5                 | 2.0                 | 1.8                 |
|                          | 60                | 15.5  | 2.9                 | 2.5                 | 2.0                 | 1.8                 |
| 25<br>(2.8)              | -4                | -20.0 | 2.0                 | 2.0                 | 1.9                 | 1.9                 |
|                          | 5                 | -15.0 | 2.3                 | 2.3                 | 2.2                 | 2.1                 |
|                          | 14                | -10.0 | 2.6                 | 2.6                 | 2.4                 | 2.3                 |
|                          | 23                | -5.0  | 2.9                 | 2.9                 | 2.5                 | 2.3                 |
|                          | 32                | 0.0   | 3.1                 | 3.1                 | 2.5                 | 2.3                 |
|                          | 37                | 2.5   | 3.3                 | 3.2                 | 2.5                 | 2.3                 |
|                          | 43                | 6.0   | 3.4                 | 3.2                 | 2.5                 | 2.3                 |
|                          | 46                | 7.5   | 3.5                 | 3.2                 | 2.5                 | 2.3                 |
|                          | 50                | 10.0  | 3.7                 | 3.2                 | 2.5                 | 2.3                 |
|                          | 55                | 12.5  | 3.7                 | 3.2                 | 2.5                 | 2.3                 |
|                          | 60                | 15.5  | 3.7                 | 3.2                 | 2.5                 | 2.3                 |
| 32<br>(3.5)              | -4                | -20.0 | 2.5                 | 2.4                 | 2.4                 | 2.3                 |
|                          | 5                 | -15.0 | 2.9                 | 2.8                 | 2.7                 | 2.6                 |
|                          | 14                | -10.0 | 3.3                 | 3.2                 | 3.1                 | 2.8                 |
|                          | 23                | -5.0  | 3.7                 | 3.6                 | 3.2                 | 2.8                 |
|                          | 32                | 0.0   | 3.9                 | 3.8                 | 3.2                 | 2.8                 |
|                          | 37                | 2.5   | 4.1                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 43                | 6.0   | 4.3                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 46                | 7.5   | 4.4                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 50                | 10.0  | 4.6                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 55                | 12.5  | 4.6                 | 4.0                 | 3.2                 | 2.8                 |
|                          | 60                | 15.5  | 4.6                 | 4.0                 | 3.2                 | 2.8                 |
| 40<br>(4.5)              | -4                | -20.0 | 3.1                 | 3.1                 | 3.0                 | 2.9                 |
|                          | 5                 | -15.0 | 3.6                 | 3.5                 | 3.4                 | 3.3                 |
|                          | 14                | -10.0 | 4.1                 | 4.0                 | 3.8                 | 3.5                 |
|                          | 23                | -5.0  | 4.6                 | 4.5                 | 4.0                 | 3.5                 |
|                          | 32                | 0.0   | 4.9                 | 4.8                 | 4.0                 | 3.5                 |
|                          | 37                | 2.5   | 5.1                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 43                | 6.0   | 5.3                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 46                | 7.5   | 5.5                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 50                | 10.0  | 5.8                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 55                | 12.5  | 5.8                 | 5.0                 | 4.0                 | 3.5                 |
|                          | 60                | 15.5  | 5.8                 | 5.0                 | 4.0                 | 3.5                 |
| 50<br>(5.6)              | -4                | -20.0 | 3.9                 | 3.8                 | 3.7                 | 3.7                 |
|                          | 5                 | -15.0 | 4.5                 | 4.4                 | 4.3                 | 4.2                 |
|                          | 14                | -10.0 | 5.1                 | 5.1                 | 4.8                 | 4.5                 |
|                          | 23                | -5.0  | 5.8                 | 5.7                 | 5.0                 | 4.5                 |
|                          | 32                | 0.0   | 6.1                 | 6.0                 | 5.0                 | 4.5                 |
|                          | 37                | 2.5   | 6.5                 | 6.3                 | 5.0                 | 4.5                 |
|                          | 43                | 6.0   | 6.7                 | 6.3                 | 5.0                 | 4.5                 |
|                          | 46                | 7.5   | 7.0                 | 6.3                 | 5.0                 | 4.5                 |
|                          | 50                | 10.0  | 7.3                 | 6.3                 | 5.0                 | 4.5                 |
|                          | 55                | 12.5  | 7.3                 | 6.3                 | 5.0                 | 4.5                 |
|                          | 60                | 15.5  | 7.3                 | 6.3                 | 5.0                 | 4.5                 |
| 63<br>(7.1)              | -4                | -20.0 | 5.0                 | 4.9                 | 4.7                 | 4.6                 |
|                          | 5                 | -15.0 | 5.8                 | 5.6                 | 5.4                 | 5.3                 |
|                          | 14                | -10.0 | 6.5                 | 6.4                 | 6.1                 | 5.7                 |
|                          | 23                | -5.0  | 7.3                 | 7.2                 | 6.3                 | 5.7                 |
|                          | 32                | 0.0   | 7.8                 | 7.6                 | 6.3                 | 5.7                 |
|                          | 37                | 2.5   | 8.2                 | 8.0                 | 6.3                 | 5.7                 |
|                          | 43                | 6.0   | 8.5                 | 8.0                 | 6.3                 | 5.7                 |
|                          | 46                | 7.5   | 8.8                 | 8.0                 | 6.3                 | 5.7                 |
|                          | 50                | 10.0  | 9.2                 | 8.0                 | 6.3                 | 5.7                 |
|                          | 55                | 12.5  | 9.3                 | 8.0                 | 6.3                 | 5.7                 |
|                          | 60                | 15.5  | 9.3                 | 8.0                 | 6.3                 | 5.7                 |

| Model size<br>(Rated kW) | Outdoor air temp. |       | Indoor air temp.    |                     |                     |                     |
|--------------------------|-------------------|-------|---------------------|---------------------|---------------------|---------------------|
|                          |                   |       | 59 °FDB<br>15.0°CDB | 68 °FDB<br>20.0°CDB | 77 °FDB<br>25.0°CDB | 81 °FDB<br>27.0°CDB |
|                          | *FWB              | *CWB  | SHC                 | SHC                 | SHC                 | SHC                 |
| 71<br>(8.0)              | -4                | -20.0 | 5.6                 | 5.5                 | 5.3                 | 5.2                 |
|                          | 5                 | -15.0 | 6.5                 | 6.4                 | 6.1                 | 6.0                 |
|                          | 14                | -10.0 | 7.4                 | 7.2                 | 6.9                 | 6.4                 |
|                          | 23                | -5.0  | 8.2                 | 8.1                 | 7.1                 | 6.4                 |
|                          | 32                | 0.0   | 8.7                 | 8.6                 | 7.1                 | 6.4                 |
|                          | 37                | 2.5   | 9.3                 | 9.0                 | 7.1                 | 6.4                 |
|                          | 43                | 6.0   | 9.6                 | 9.0                 | 7.1                 | 6.4                 |
|                          | 46                | 7.5   | 9.9                 | 9.0                 | 7.1                 | 6.4                 |
|                          | 50                | 10.0  | 10.4                | 9.0                 | 7.1                 | 6.4                 |
|                          | 55                | 12.5  | 10.4                | 9.0                 | 7.1                 | 6.4                 |
|                          | 60                | 15.5  | 10.4                | 9.0                 | 7.1                 | 6.4                 |
| 80<br>(9.0)              | -4                | -20.0 | 6.3                 | 6.1                 | 5.9                 | 5.8                 |
|                          | 5                 | -15.0 | 7.2                 | 7.1                 | 6.8                 | 6.6                 |
|                          | 14                | -10.0 | 8.2                 | 8.0                 | 7.7                 | 7.1                 |
|                          | 23                | -5.0  | 9.1                 | 9.0                 | 7.9                 | 7.1                 |
|                          | 32                | 0.0   | 9.7                 | 9.5                 | 7.9                 | 7.1                 |
|                          | 37                | 2.5   | 10.3                | 10.0                | 7.9                 | 7.1                 |
|                          | 43                | 6.0   | 10.7                | 10.0                | 7.9                 | 7.1                 |
|                          | 46                | 7.5   | 11.1                | 10.0                | 7.9                 | 7.1                 |
|                          | 50                | 10.0  | 11.5                | 10.0                | 7.9                 | 7.1                 |
|                          | 55                | 12.5  | 11.6                | 10.0                | 7.9                 | 7.1                 |
|                          | 60                | 15.5  | 11.6                | 10.0                | 7.9                 | 7.1                 |
| 100<br>(11.2)            | -4                | -20.0 | 7.8                 | 7.6                 | 7.4                 | 7.2                 |
|                          | 5                 | -15.0 | 9.0                 | 8.8                 | 8.5                 | 8.3                 |
|                          | 14                | -10.0 | 10.2                | 10.0                | 9.6                 | 8.9                 |
|                          | 23                | -5.0  | 11.4                | 11.2                | 9.9                 | 8.9                 |
|                          | 32                | 0.0   | 12.1                | 11.9                | 9.9                 | 8.9                 |
|                          | 37                | 2.5   | 12.9                | 12.5                | 9.9                 | 8.9                 |
|                          | 43                | 6.0   | 13.3                | 12.5                | 9.9                 | 8.9                 |
|                          | 46                | 7.5   | 13.8                | 12.5                | 9.9                 | 8.9                 |
|                          | 50                | 10.0  | 14.4                | 12.5                | 9.9                 | 8.9                 |
|                          | 55                | 12.5  | 14.5                | 12.5                | 9.9                 | 8.9                 |
|                          | 60                | 15.5  | 14.5                | 12.5                | 9.9                 | 8.9                 |
| 125<br>(14.0)            | -4                | -20.0 | 10.0                | 9.8                 | 9.5                 | 9.3                 |
|                          | 5                 | -15.0 | 11.5                | 11.3                | 10.9                | 10.6                |
|                          | 14                | -10.0 | 13.1                | 12.8                | 12.2                | 11.3                |
|                          | 23                | -5.0  | 14.6                | 14.4                | 12.7                | 11.3                |
|                          | 32                | 0.0   | 15.5                | 15.3                | 12.7                | 11.3                |
|                          | 37                | 2.5   | 16.5                | 16.0                | 12.7                | 11.3                |
|                          | 43                | 6.0   | 17.1                | 16.0                | 12.7                | 11.3                |
|                          | 46                | 7.5   | 17.7                | 16.0                | 12.7                | 11.3                |
|                          | 50                | 10.0  | 18.5                | 16.0                | 12.7                | 11.3                |
|                          | 55                | 12.5  | 18.5                | 16.0                | 12.7                | 11.3                |
|                          | 60                | 15.5  | 18.6                | 16.0                | 12.7                | 11.3                |
| 140<br>(16.0)            | -4                | -20.0 | 11.3                | 11.0                | 10.7                | 10.4                |
|                          | 5                 | -15.0 | 13.0                | 12.7                | 12.2                | 11.9                |
|                          | 14                | -10.0 | 14.7                | 14.4                | 13.8                | 12.8                |
|                          | 23                | -5.0  | 16.4                | 16.1                | 14.3                | 12.8                |
|                          | 32                | 0.0   | 17.5                | 17.2                | 14.3                | 12.8                |
|                          | 37                | 2.5   | 18.5                | 18.0                | 14.3                | 12.8                |
|                          | 43                | 6.0   | 19.2                | 18.0                | 14.3                | 12.8                |
|                          | 46                | 7.5   | 19.9                | 18.0                | 14.3                | 12.8                |
|                          | 50                | 10.0  | 20.8                | 18.0                | 14.3                | 12.8                |
|                          | 55                | 12.5  | 20.8                | 18.0                | 14.3                | 12.8                |
|                          | 60                | 15.5  | 20.9                | 18.0                | 14.3                | 12.8                |
| 200<br>(22.4)            | -4                | -20.0 | 15.6                | 15.3                | 14.8                | 14.5                |
|                          | 5                 | -15.0 | 18.0                | 17.7                | 17.0                | 16.5                |
|                          | 14                | -10.0 | 20.4                | 20.0                | 19.1                | 17.7                |
|                          | 23                | -5.0  | 22.8                | 22.4                | 19.8                | 17.7                |
|                          | 32                | 0.0   | 24.3                | 23.9                | 19.8                | 17.7                |
|                          | 37                | 2.5   | 25.7                | 25.0                | 19.8                | 17.7                |
|                          | 43                | 6.0   | 26.7                | 25.0                | 19.8                | 17.7                |
|                          | 46                | 7.5   | 27.6                | 25.0                | 19.8                | 17.7                |
|                          | 50                | 10.0  | 28.9                | 25.0                | 19.8                | 17.7                |
|                          | 55                | 12.5  | 29.0                | 25.0                | 19.8                | 17.7                |
|                          | 60                | 15.5  | 29.0                | 25.0                | 19.8                | 17.7                |
| 250<br>(28.0)            | -4                | -20.0 | 19.7                | 19.2                | 18.7                | 18.3                |
|                          | 5                 | -15.0 | 22.7                | 22.2                | 21.4                | 20.8                |
|                          | 14                | -10.0 | 25.7                | 25.3                | 24.1                | 22.3                |
|                          | 23                | -5.0  | 28.8                | 28.3                | 25.0                | 22.3                |
|                          | 32                | 0.0   | 30.6                | 30.1                | 25.0                | 22.3                |
|                          | 37                | 2.5   | 32.4                | 31.5                | 25.0                | 22.3                |
|                          | 43                | 6.0   | 33.6                | 31.5                | 25.0                | 22.3                |
|                          | 46                | 7.5   | 34.8                | 31.5                | 25.0                | 22.3                |
|                          | 50                | 10.0  | 36.4                | 31.5                | 25.0                | 22.3                |
|                          | 55                | 12.5  | 36.5                | 31.5                | 24.9                | 22.3                |
|                          | 60                | 15.5  | 36.6                | 31.5                | 24.9                | 22.3                |

kcal/h = kW x 860, Btu/h = kW x 3,412

# CAPACITY TABLES

## 3-1. Cooling capacity of PEFY-P-VMH-E-F

CA :Capacity(kW)

SHC:Sensible Heat Capacity(kW)

### PEFY-P80VMH-E-F

| Outdoor air temp. |       | 59°F WB |     | 63°F WB |     | 68°F WB |     | 73°F WB |     | 79°F WB |     | 82°F WB |     | 86°F WB |     | 90°F WB |     | 95°F WB |     |
|-------------------|-------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|
|                   |       | 15°C WB |     | 17°C WB |     | 20°C WB |     | 23°C WB |     | 26°C WB |     | 28°C WB |     | 30°C WB |     | 32°C WB |     | 35°C WB |     |
| °F DB             | °C DB | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC |
| 70                | 21    | 4.4     | 3.0 | 5.3     | 2.9 | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   |
| 73                | 23    | 4.4     | 3.4 | 5.3     | 3.3 | 6.5     | 3.0 | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   |
| 77                | 25    | 4.4     | 3.8 | 5.2     | 3.7 | 6.4     | 3.4 | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   |
| 81                | 27    | -       | -   | 5.2     | 4.0 | 6.4     | 3.7 | 7.5     | 3.3 | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   |
| 84                | 29    | -       | -   | -       | -   | 6.4     | 4.1 | 7.5     | 3.7 | 8.5     | 3.2 | -       | -   | -       | -   | -       | -   | -       | -   |
| 88                | 31    | -       | -   | -       | -   | 6.3     | 4.5 | 7.4     | 4.0 | 8.4     | 3.5 | 9.1     | 3.1 | -       | -   | -       | -   | -       | -   |
| 91                | 33    | -       | -   | -       | -   | -       | -   | 7.3     | 4.4 | 8.3     | 3.8 | 9.0     | 3.5 | 9.6     | 3.0 | -       | -   | -       | -   |
| 95                | 35    | -       | -   | -       | -   | -       | -   | 7.2     | 4.7 | 8.2     | 4.2 | 8.9     | 3.8 | 9.5     | 3.3 | -       | -   | -       | -   |
| 99                | 37    | -       | -   | -       | -   | -       | -   | -       | -   | 8.1     | 4.5 | 8.8     | 4.1 | 9.4     | 3.7 | 9.9     | 3.2 | -       | -   |
| 104               | 40    | -       | -   | -       | -   | -       | -   | -       | -   | 8.0     | 5.0 | 8.6     | 4.6 | 9.1     | 4.1 | 9.7     | 3.7 | 10.5    | 2.9 |

### PEFY-P140VMH-E-F

| Outdoor air temp. |       | 59°F WB |     | 63°F WB |     | 68°F WB |     | 73°F WB |     | 79°F WB |     | 82°F WB |     | 86°F WB |     | 90°F WB |     | 95°F WB |     |
|-------------------|-------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|
|                   |       | 15°C WB |     | 17°C WB |     | 20°C WB |     | 23°C WB |     | 26°C WB |     | 28°C WB |     | 30°C WB |     | 32°C WB |     | 35°C WB |     |
| °F DB             | °C DB | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC | CA      | SHC |
| 70                | 21    | 7.8     | 5.6 | 9.4     | 5.3 | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   |
| 73                | 23    | 7.8     | 6.3 | 9.3     | 6.0 | 11.5    | 5.4 | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   |
| 77                | 25    | 7.8     | 7.1 | 9.3     | 6.8 | 11.5    | 6.1 | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   |
| 81                | 27    | -       | -   | 9.3     | 7.5 | 11.4    | 6.8 | 13.4    | 6.0 | -       | -   | -       | -   | -       | -   | -       | -   | -       | -   |
| 84                | 29    | -       | -   | -       | -   | 11.3    | 7.5 | 13.3    | 6.7 | 15.2    | 5.6 | -       | -   | -       | -   | -       | -   | -       | -   |
| 88                | 31    | -       | -   | -       | -   | 11.2    | 8.2 | 13.2    | 7.3 | 15.0    | 6.3 | 16.2    | 5.5 | -       | -   | -       | -   | -       | -   |
| 91                | 33    | -       | -   | -       | -   | -       | -   | 13.0    | 8.0 | 14.8    | 7.0 | 16.0    | 6.2 | 17.1    | 5.3 | -       | -   | -       | -   |
| 95                | 35    | -       | -   | -       | -   | -       | -   | 12.9    | 8.7 | 14.6    | 7.6 | 15.8    | 6.8 | 16.9    | 6.0 | -       | -   | -       | -   |
| 99                | 37    | -       | -   | -       | -   | -       | -   | -       | -   | 14.5    | 8.3 | 15.6    | 7.5 | 16.6    | 6.6 | 17.7    | 5.7 | -       | -   |
| 104               | 40    | -       | -   | -       | -   | -       | -   | -       | -   | 14.2    | 9.3 | 15.2    | 8.5 | 16.3    | 7.6 | 17.3    | 6.7 | 18.7    | 5.3 |

### PEFY-P200VMH-E-F

| Outdoor air temp. |       | 59°F WB |      | 63°F WB |      | 68°F WB |      | 73°F WB |      | 79°F WB |      | 82°F WB |      | 86°F WB |      | 90°F WB |     | 95°F WB |      |
|-------------------|-------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|-----|---------|------|
|                   |       | 15°C WB |      | 17°C WB |      | 20°C WB |      | 23°C WB |      | 26°C WB |      | 28°C WB |      | 30°C WB |      | 32°C WB |     | 35°C WB |      |
| °F DB             | °C DB | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC | CA      | SHC  |
| 70                | 21    | 10.9    | 7.9  | 13.1    | 7.5  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -   | -       | -    |
| 73                | 23    | 11.0    | 9.0  | 13.1    | 8.5  | 16.1    | 7.6  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -   | -       | -    |
| 77                | 25    | 11.0    | 10.1 | 13.0    | 9.6  | 16.0    | 8.6  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -   | -       | -    |
| 81                | 27    | -       | -    | 13.0    | 10.7 | 15.9    | 9.7  | 18.8    | 8.4  | -       | -    | -       | -    | -       | -    | -       | -   | -       | -    |
| 84                | 29    | -       | -    | -       | -    | 15.8    | 10.7 | 18.6    | 9.4  | 21.2    | 7.9  | -       | -    | -       | -    | -       | -   | -       | -    |
| 88                | 31    | -       | -    | -       | -    | 15.7    | 11.7 | 18.4    | 10.4 | 21.0    | 8.9  | 22.6    | 7.7  | -       | -    | -       | -   | -       | -    |
| 91                | 33    | -       | -    | -       | -    | -       | -    | 18.2    | 11.4 | 20.7    | 9.8  | 22.4    | 8.7  | 23.9    | 7.5  | -       | -   | -       | -    |
| 95                | 35    | -       | -    | -       | -    | -       | -    | 18.0    | 12.4 | 20.5    | 10.8 | 22.1    | 9.6  | 23.6    | 8.4  | -       | -   | -       | -    |
| 99                | 37    | -       | -    | -       | -    | -       | -    | -       | -    | 20.2    | 11.8 | 21.8    | 10.6 | 23.3    | 9.4  | 24.7    | 8.1 | -       | -    |
| 104               | 40    | -       | -    | -       | -    | -       | -    | -       | -    | 19.8    | 13.2 | 21.3    | 12.0 | 22.8    | 10.8 | 24.2    | 9.5 | 26.2    | 7.47 |

### PEFY-P250VMH-E-F

| Outdoor air temp. |       | 59°F WB |      | 63°F WB |      | 68°F WB |      | 73°F WB |      | 79°F WB |      | 82°F WB |      | 86°F WB |      | 90°F WB |      | 95°F WB |      |
|-------------------|-------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
|                   |       | 15°C WB |      | 17°C WB |      | 20°C WB |      | 23°C WB |      | 26°C WB |      | 28°C WB |      | 30°C WB |      | 32°C WB |      | 35°C WB |      |
| °F DB             | °C DB | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  | CA      | SHC  |
| 70                | 21    | 13.7    | 9.9  | 16.4    | 9.3  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 73                | 23    | 13.7    | 11.3 | 16.3    | 10.7 | 20.2    | 9.5  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 77                | 25    | 13.7    | 12.6 | 16.3    | 12.0 | 20.1    | 10.8 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 81                | 27    | -       | -    | 16.2    | 13.3 | 19.9    | 12.1 | 23.4    | 10.5 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 84                | 29    | -       | -    | -       | -    | 19.8    | 13.4 | 23.2    | 11.7 | 26.5    | 9.8  | -       | -    | -       | -    | -       | -    | -       | -    |
| 88                | 31    | -       | -    | -       | -    | 19.6    | 14.7 | 23.0    | 13.0 | 26.2    | 11.1 | 28.3    | 9.7  | -       | -    | -       | -    | -       | -    |
| 91                | 33    | -       | -    | -       | -    | -       | -    | 22.8    | 14.2 | 25.9    | 12.3 | 28.0    | 10.9 | 29.9    | 9.3  | -       | -    | -       | -    |
| 95                | 35    | -       | -    | -       | -    | -       | -    | 22.5    | 15.5 | 25.6    | 13.5 | 27.6    | 12.1 | 29.5    | 10.5 | -       | -    | -       | -    |
| 99                | 37    | -       | -    | -       | -    | -       | -    | -       | -    | 25.3    | 14.7 | 27.2    | 13.3 | 29.1    | 11.7 | 30.9    | 10.1 | -       | -    |
| 104               | 40    | -       | -    | -       | -    | -       | -    | -       | -    | 24.8    | 16.5 | 26.6    | 15.0 | 28.4    | 13.5 | 30.2    | 11.9 | 32.7    | 9.34 |

There are times when the cooling capacity is lowered to protect the compressor in cases where the outdoor air temperature exceeds 40°C (104°F)

# CAPACITY TABLES

## 3-2. Outlet air temp. cooled

### PEFY-P80VMH-E-F

| Outdoor air temp. |      | 59°F WB |      | 63°F WB |      | 68°F WB |      | 73°F WB |      | 79°F WB |      | 82°F WB |      | 86°F WB |      | 90°F WB |      | 95°F WB |      |
|-------------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
|                   |      | 15°C WB |      | 17°C WB |      | 20°C WB |      | 23°C WB |      | 26°C WB |      | 28°C WB |      | 30°C WB |      | 32°C WB |      | 35°C WB |      |
| *FDB              | *CDB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB |
| 70                | 21   | 5.1     | 5.0  | 5.6     | 5.6  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 73                | 23   | 5.1     | 5.0  | 5.7     | 5.6  | 7.0     | 7.0  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 77                | 25   | 5.1     | 5.0  | 5.7     | 5.7  | 7.1     | 7.1  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 81                | 27   | -       | -    | 5.8     | 5.7  | 7.2     | 7.2  | 9.2     | 9.2  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 84                | 29   | -       | -    | -       | -    | 7.4     | 7.3  | 9.4     | 9.4  | 12.0    | 12.0 | -       | -    | -       | -    | -       | -    | -       | -    |
| 88                | 31   | -       | -    | -       | -    | 7.5     | 7.4  | 9.6     | 9.6  | 12.2    | 12.2 | 14.2    | 14.2 | -       | -    | -       | -    | -       | -    |
| 91                | 33   | -       | -    | -       | -    | -       | -    | 9.8     | 9.7  | 12.4    | 12.4 | 14.4    | 14.4 | 16.6    | 16.6 | -       | -    | -       | -    |
| 95                | 35   | -       | -    | -       | -    | -       | -    | 10.0    | 9.9  | 12.6    | 12.6 | 14.6    | 14.6 | 16.8    | 16.8 | -       | -    | -       | -    |
| 99                | 37   | -       | -    | -       | -    | -       | -    | -       | -    | 12.8    | 12.8 | 14.9    | 14.8 | 17.1    | 17.1 | 19.5    | 19.5 | -       | -    |
| 104               | 40   | -       | -    | -       | -    | -       | -    | -       | -    | 13.2    | 13.1 | 15.3    | 15.2 | 17.5    | 17.4 | 19.9    | 19.8 | 23.7    | 23.7 |

### PEFY-P140VMH-E-F

| Outdoor air temp. |      | 59°F WB |      | 63°F WB |      | 68°F WB |      | 73°F WB |      | 79°F WB |      | 82°F WB |      | 86°F WB |      | 90°F WB |      | 95°F WB |      |
|-------------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
|                   |      | 15°C WB |      | 17°C WB |      | 20°C WB |      | 23°C WB |      | 26°C WB |      | 28°C WB |      | 30°C WB |      | 32°C WB |      | 35°C WB |      |
| *FDB              | *CDB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB |
| 70                | 21   | 6.3     | 6.3  | 7.1     | 7.0  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 73                | 23   | 6.3     | 6.3  | 7.1     | 7.1  | 8.7     | 8.7  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 77                | 25   | 6.4     | 6.3  | 7.2     | 7.1  | 8.8     | 8.8  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 81                | 27   | -       | -    | 7.2     | 7.1  | 8.9     | 8.9  | 11.1    | 11.1 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 84                | 29   | -       | -    | -       | -    | 9.0     | 9.0  | 11.2    | 11.2 | 13.9    | 13.9 | -       | -    | -       | -    | -       | -    | -       | -    |
| 88                | 31   | -       | -    | -       | -    | 9.1     | 9.0  | 11.4    | 11.3 | 14.0    | 14.0 | 16.1    | 16.1 | -       | -    | -       | -    | -       | -    |
| 91                | 33   | -       | -    | -       | -    | -       | -    | 11.5    | 11.5 | 14.2    | 14.2 | 16.2    | 16.2 | 18.4    | 18.4 | -       | -    | -       | -    |
| 95                | 35   | -       | -    | -       | -    | -       | -    | 11.7    | 11.6 | 14.4    | 14.4 | 16.4    | 16.4 | 18.6    | 18.6 | -       | -    | -       | -    |
| 99                | 37   | -       | -    | -       | -    | -       | -    | -       | -    | 14.6    | 14.5 | 16.7    | 16.6 | 18.8    | 18.8 | 21.2    | 21.1 | -       | -    |
| 104               | 40   | -       | -    | -       | -    | -       | -    | -       | -    | 14.9    | 14.8 | 17.0    | 16.9 | 19.2    | 19.1 | 21.5    | 21.5 | 25.2    | 25.2 |

### PEFY-P200VMH-E-F

| Outdoor air temp. |      | 59°F WB |      | 63°F WB |      | 68°F WB |      | 73°F WB |      | 79°F WB |      | 82°F WB |      | 86°F WB |      | 90°F WB |      | 95°F WB |      |
|-------------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
|                   |      | 15°C WB |      | 17°C WB |      | 20°C WB |      | 23°C WB |      | 26°C WB |      | 28°C WB |      | 30°C WB |      | 32°C WB |      | 35°C WB |      |
| *FDB              | *CDB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB |
| 70                | 21   | 7.6     | 7.2  | 8.3     | 8.2  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 73                | 23   | 7.7     | 7.2  | 8.5     | 8.2  | 10.0    | 10.0 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 77                | 25   | 7.8     | 7.2  | 8.6     | 8.2  | 10.3    | 10.1 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 81                | 27   | -       | -    | 8.8     | 8.2  | 10.5    | 10.1 | 12.5    | 12.4 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 84                | 29   | -       | -    | -       | -    | 10.7    | 10.2 | 12.8    | 12.6 | 15.3    | 15.3 | -       | -    | -       | -    | -       | -    | -       | -    |
| 88                | 31   | -       | -    | -       | -    | 10.9    | 10.3 | 13.0    | 12.7 | 15.6    | 15.4 | 17.5    | 17.5 | -       | -    | -       | -    | -       | -    |
| 91                | 33   | -       | -    | -       | -    | -       | -    | 13.3    | 12.8 | 15.9    | 15.6 | 17.7    | 17.6 | 19.8    | 19.8 | -       | -    | -       | -    |
| 95                | 35   | -       | -    | -       | -    | -       | -    | 13.6    | 12.9 | 16.1    | 15.7 | 18.1    | 17.8 | 20.1    | 20.0 | -       | -    | -       | -    |
| 99                | 37   | -       | -    | -       | -    | -       | -    | -       | -    | 16.4    | 15.9 | 18.4    | 17.9 | 20.4    | 20.1 | 22.6    | 22.4 | -       | -    |
| 104               | 40   | -       | -    | -       | -    | -       | -    | -       | -    | 16.9    | 16.1 | 18.8    | 18.2 | 20.9    | 20.4 | 23.1    | 22.7 | 26.5    | 26.3 |

### PEFY-P250VMH-E-F

| Outdoor air temp. |      | 59°F WB |      | 63°F WB |      | 68°F WB |      | 73°F WB |      | 79°F WB |      | 82°F WB |      | 86°F WB |      | 90°F WB |      | 95°F WB |      |
|-------------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
|                   |      | 15°C WB |      | 17°C WB |      | 20°C WB |      | 23°C WB |      | 26°C WB |      | 28°C WB |      | 30°C WB |      | 32°C WB |      | 35°C WB |      |
| *FDB              | *CDB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB | *CDB    | *CWB |
| 70                | 21   | 7.6     | 7.2  | 8.3     | 8.2  | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 73                | 23   | 7.7     | 7.2  | 8.5     | 8.2  | 10.0    | 10.0 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 77                | 25   | 7.8     | 7.2  | 8.6     | 8.2  | 10.3    | 10.1 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 81                | 27   | -       | -    | 8.8     | 8.2  | 10.5    | 10.1 | 12.5    | 12.4 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 84                | 29   | -       | -    | -       | -    | 10.7    | 10.2 | 12.8    | 12.6 | 15.3    | 15.3 | -       | -    | -       | -    | -       | -    | -       | -    |
| 88                | 31   | -       | -    | -       | -    | 10.9    | 10.3 | 13.0    | 12.7 | 15.6    | 15.4 | 17.5    | 17.5 | -       | -    | -       | -    | -       | -    |
| 91                | 33   | -       | -    | -       | -    | -       | -    | 13.3    | 12.8 | 15.9    | 15.6 | 17.7    | 17.6 | 19.8    | 19.8 | -       | -    | -       | -    |
| 95                | 35   | -       | -    | -       | -    | -       | -    | 13.6    | 12.9 | 16.1    | 15.7 | 18.1    | 17.8 | 20.1    | 20.0 | -       | -    | -       | -    |
| 99                | 37   | -       | -    | -       | -    | -       | -    | -       | -    | 16.4    | 15.9 | 18.4    | 17.9 | 20.4    | 20.1 | 22.6    | 22.4 | -       | -    |
| 104               | 40   | -       | -    | -       | -    | -       | -    | -       | -    | 16.9    | 16.1 | 18.8    | 18.2 | 20.9    | 20.4 | 23.1    | 22.7 | 26.5    | 26.3 |

# CAPACITY TABLES

## 3-3. Heating capacity of PEFY-P-VMH-E-F

### PEFY-P80VMH-E-F

SHC:Sensible Heat Capacity(kW)

| Outdoor air temp. |       | 16°F WB | 23°F WB | 27°F WB   | 32°F WB | 36°F WB | 39°F WB | 43°F WB | 50°F WB | 57°F WB |
|-------------------|-------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|
|                   |       | -9°C WB | -5°C WB | -2.9°C WB | 0°C WB  | 2°C WB  | 4°C WB  | 6°C WB  | 10°C WB | 14°C WB |
| °F DB             | °C DB | SHC     | SHC     | SHC       | SHC     | SHC     | SHC     | SHC     | SHC     | SHC     |
| 18                | -8    | 8.2     | -       | -         | -       | -       | -       | -       | -       | -       |
| 27                | -3    | -       | 9.1     | -         | -       | -       | -       | -       | -       | -       |
| 32                | 0     | -       | -       | 8.5       | -       | -       | -       | -       | -       | -       |
| 37                | 3     | -       | -       | -         | 7.9     | 7.9     | -       | -       | -       | -       |
| 45                | 7     | -       | -       | -         | -       | 7.1     | 7.1     | 7.1     | -       | -       |
| 52                | 11    | -       | -       | -         | -       | -       | -       | 6.3     | 6.3     | -       |
| 59                | 15    | -       | -       | -         | -       | -       | -       | -       | 5.5     | 5.5     |
| 64                | 18    | -       | -       | -         | -       | -       | -       | -       | 5.0     | 5.0     |
| 68                | 20    | -       | -       | -         | -       | -       | -       | -       | -       | 4.6     |

### PEFY-P140VMH-E-F

| Outdoor air temp. |       | 16°F WB | 23°F WB | 27°F WB   | 32°F WB | 36°F WB | 39°F WB | 43°F WB | 50°F WB | 57°F WB |
|-------------------|-------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|
|                   |       | -9°C WB | -5°C WB | -2.9°C WB | 0°C WB  | 2°C WB  | 4°C WB  | 6°C WB  | 10°C WB | 14°C WB |
| °F DB             | °C DB | SHC     | SHC     | SHC       | SHC     | SHC     | SHC     | SHC     | SHC     | SHC     |
| 18                | -8    | 14.6    | -       | -         | -       | -       | -       | -       | -       | -       |
| 27                | -3    | -       | 16.2    | -         | -       | -       | -       | -       | -       | -       |
| 32                | 0     | -       | -       | 15.1      | -       | -       | -       | -       | -       | -       |
| 37                | 3     | -       | -       | -         | 14.0    | 14.0    | -       | -       | -       | -       |
| 45                | 7     | -       | -       | -         | -       | 12.6    | 12.6    | 12.6    | -       | -       |
| 52                | 11    | -       | -       | -         | -       | -       | -       | 11.2    | 11.2    | -       |
| 59                | 15    | -       | -       | -         | -       | -       | -       | -       | 9.8     | 9.8     |
| 64                | 18    | -       | -       | -         | -       | -       | -       | -       | 8.8     | 8.8     |
| 68                | 20    | -       | -       | -         | -       | -       | -       | -       | -       | 8.1     |

### PEFY-P200VMH-E-F

| Outdoor air temp. |       | 16°F WB | 23°F WB | 27°F WB   | 32°F WB | 36°F WB | 39°F WB | 43°F WB | 50°F WB | 57°F WB |
|-------------------|-------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|
|                   |       | -9°C WB | -5°C WB | -2.9°C WB | 0°C WB  | 2°C WB  | 4°C WB  | 6°C WB  | 10°C WB | 14°C WB |
| °F DB             | °C DB | SHC     | SHC     | SHC       | SHC     | SHC     | SHC     | SHC     | SHC     | SHC     |
| 18                | -8    | 20.5    | -       | -         | -       | -       | -       | -       | -       | -       |
| 27                | -3    | -       | 22.7    | -         | -       | -       | -       | -       | -       | -       |
| 32                | 0     | -       | -       | 21.2      | -       | -       | -       | -       | -       | -       |
| 37                | 3     | -       | -       | -         | 19.7    | 19.7    | -       | -       | -       | -       |
| 45                | 7     | -       | -       | -         | -       | 17.8    | 17.8    | 17.8    | -       | -       |
| 52                | 11    | -       | -       | -         | -       | -       | -       | 15.8    | 15.8    | -       |
| 59                | 15    | -       | -       | -         | -       | -       | -       | -       | 13.8    | 13.8    |
| 64                | 18    | -       | -       | -         | -       | -       | -       | -       | 12.3    | 12.3    |
| 68                | 20    | -       | -       | -         | -       | -       | -       | -       | -       | 11.4    |

### PEFY-P250VMH-E-F

| Outdoor air temp. |       | 16°F WB | 23°F WB | 27°F WB   | 32°F WB | 36°F WB | 39°F WB | 43°F WB | 50°F WB | 57°F WB |
|-------------------|-------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|
|                   |       | -9°C WB | -5°C WB | -2.9°C WB | 0°C WB  | 2°C WB  | 4°C WB  | 6°C WB  | 10°C WB | 14°C WB |
| °F DB             | °C DB | SHC     | SHC     | SHC       | SHC     | SHC     | SHC     | SHC     | SHC     | SHC     |
| 18                | -8    | 25.7    | -       | -         | -       | -       | -       | -       | -       | -       |
| 27                | -3    | -       | 28.3    | -         | -       | -       | -       | -       | -       | -       |
| 32                | 0     | -       | -       | 26.5      | -       | -       | -       | -       | -       | -       |
| 37                | 3     | -       | -       | -         | 24.7    | 24.7    | -       | -       | -       | -       |
| 45                | 7     | -       | -       | -         | -       | 22.2    | 22.2    | 22.2    | -       | -       |
| 52                | 11    | -       | -       | -         | -       | -       | -       | 19.7    | 19.7    | -       |
| 59                | 15    | -       | -       | -         | -       | -       | -       | -       | 17.3    | 17.3    |
| 64                | 18    | -       | -       | -         | -       | -       | -       | -       | 15.4    | 15.4    |
| 68                | 20    | -       | -       | -         | -       | -       | -       | -       | -       | 14.2    |

# CAPACITY TABLES

## 3-4. Outlet air temp. heated

### PEFY-P80VMH-E-F

| Outdoor air temp. |       | 16°F WB | 23°F WB | 27°F WB   | 32°F WB | 36°F WB | 39°F WB | 43°F WB | 50°F WB | 57°F WB |
|-------------------|-------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|
|                   |       | -9°C WB | -5°C WB | -2.9°C WB | 0°C WB  | 2°C WB  | 4°C WB  | 6°C WB  | 10°C WB | 14°C WB |
| °F DB             | °C DB | °C DB   | °C DB   | °C DB     | °C DB   | °C DB   | °C DB   | °C DB   | °C DB   | °C DB   |
| 18                | -8    | 40.6    | -       | -         | -       | -       | -       | -       | -       | -       |
| 27                | -3    | -       | 53.1    | -         | -       | -       | -       | -       | -       | -       |
| 32                | 0     | -       | -       | 51.9      | -       | -       | -       | -       | -       | -       |
| 37                | 3     | -       | -       | -         | 51.3    | 51.8    | -       | -       | -       | -       |
| 45                | 7     | -       | -       | -         | -       | 50.5    | 50.5    | 50.9    | -       | -       |
| 52                | 11    | -       | -       | -         | -       | -       | -       | 49.6    | 50.1    | -       |
| 59                | 15    | -       | -       | -         | -       | -       | -       | -       | 48.8    | 49.2    |
| 64                | 18    | -       | -       | -         | -       | -       | -       | -       | 48.2    | 48.2    |
| 68                | 20    | -       | -       | -         | -       | -       | -       | -       | -       | 47.8    |

### PEFY-P140VMH-E-F

| Outdoor air temp. |       | 16°F WB | 23°F WB | 27°F WB   | 32°F WB | 36°F WB | 39°F WB | 43°F WB | 50°F WB | 57°F WB |
|-------------------|-------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|
|                   |       | -9°C WB | -5°C WB | -2.9°C WB | 0°C WB  | 2°C WB  | 4°C WB  | 6°C WB  | 10°C WB | 14°C WB |
| °F DB             | °C DB | °C DB   | °C DB   | °C DB     | °C DB   | °C DB   | °C DB   | °C DB   | °C DB   | °C DB   |
| 18                | -8    | 34.7    | -       | -         | -       | -       | -       | -       | -       | -       |
| 27                | -3    | -       | 45.8    | -         | -       | -       | -       | -       | -       | -       |
| 32                | 0     | -       | -       | 45.6      | -       | -       | -       | -       | -       | -       |
| 37                | 3     | -       | -       | -         | 45.4    | 45.4    | -       | -       | -       | -       |
| 45                | 7     | -       | -       | -         | -       | 45.2    | 45.2    | 45.2    | -       | -       |
| 52                | 11    | -       | -       | -         | -       | -       | -       | 45.0    | 45.0    | -       |
| 59                | 15    | -       | -       | -         | -       | -       | -       | -       | 44.7    | 45.1    |
| 64                | 18    | -       | -       | -         | -       | -       | -       | -       | 44.6    | 44.6    |
| 68                | 20    | -       | -       | -         | -       | -       | -       | -       | -       | 44.4    |

### PEFY-P200VMH-E-F

| Outdoor air temp. |       | 16°F WB | 23°F WB | 27°F WB   | 32°F WB | 36°F WB | 39°F WB | 43°F WB | 50°F WB | 57°F WB |
|-------------------|-------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|
|                   |       | -9°C WB | -5°C WB | -2.9°C WB | 0°C WB  | 2°C WB  | 4°C WB  | 6°C WB  | 10°C WB | 14°C WB |
| °F DB             | °C DB | °C DB   | °C DB   | °C DB     | °C DB   | °C DB   | °C DB   | °C DB   | °C DB   | °C DB   |
| 18                | -8    | 29.7    | -       | -         | -       | -       | -       | -       | -       | -       |
| 27                | -3    | -       | 40.0    | -         | -       | -       | -       | -       | -       | -       |
| 32                | 0     | -       | -       | 40.3      | -       | -       | -       | -       | -       | -       |
| 37                | 3     | -       | -       | -         | 40.6    | 40.7    | -       | -       | -       | -       |
| 45                | 7     | -       | -       | -         | -       | 40.8    | 40.9    | 41.0    | -       | -       |
| 52                | 11    | -       | -       | -         | -       | -       | -       | 41.2    | 41.4    | -       |
| 59                | 15    | -       | -       | -         | -       | -       | -       | -       | 41.5    | 41.7    |
| 64                | 18    | -       | -       | -         | -       | -       | -       | -       | 41.7    | 41.8    |
| 68                | 20    | -       | -       | -         | -       | -       | -       | -       | -       | 41.9    |

### PEFY-P250VMH-E-F

| Outdoor air temp. |       | 16°F WB | 23°F WB | 27°F WB   | 32°F WB | 36°F WB | 39°F WB | 43°F WB | 50°F WB | 57°F WB |
|-------------------|-------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|
|                   |       | -9°C WB | -5°C WB | -2.9°C WB | 0°C WB  | 2°C WB  | 4°C WB  | 6°C WB  | 10°C WB | 14°C WB |
| °F DB             | °C DB | °C DB   | °C DB   | °C DB     | °C DB   | °C DB   | °C DB   | °C DB   | °C DB   | °C DB   |
| 18                | -8    | 29.7    | -       | -         | -       | -       | -       | -       | -       | -       |
| 27                | -3    | -       | 40.0    | -         | -       | -       | -       | -       | -       | -       |
| 32                | 0     | -       | -       | 40.3      | -       | -       | -       | -       | -       | -       |
| 37                | 3     | -       | -       | -         | 40.6    | 40.7    | -       | -       | -       | -       |
| 45                | 7     | -       | -       | -         | -       | 40.8    | 40.9    | 41.0    | -       | -       |
| 52                | 11    | -       | -       | -         | -       | -       | -       | 41.2    | 41.4    | -       |
| 59                | 15    | -       | -       | -         | -       | -       | -       | -       | 41.5    | 41.7    |
| 64                | 18    | -       | -       | -         | -       | -       | -       | -       | 41.6    | 41.8    |
| 68                | 20    | -       | -       | -         | -       | -       | -       | -       | -       | 41.9    |



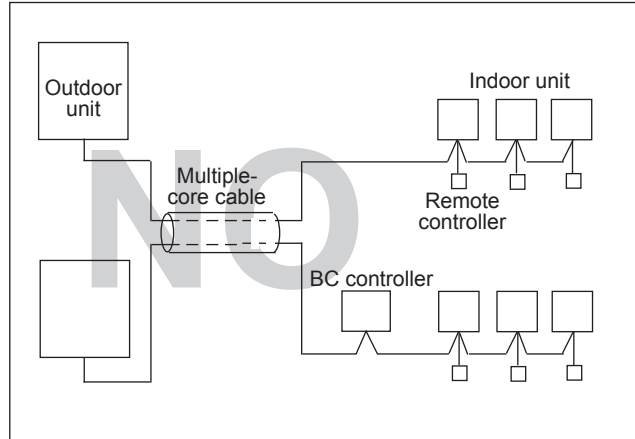
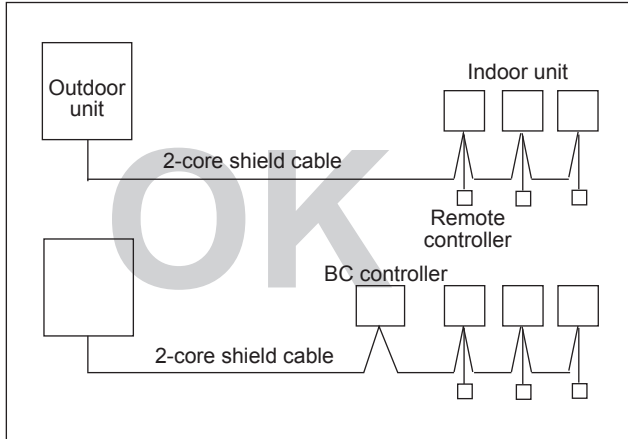
# SYSTEM DESIGN Y SERIES

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# 1. Electrical work

## 1-1. General cautions

- ① Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations, and guidance of each electric power company.
- ② Wiring for control (hereinafter referred to as transmission cable) shall be (50mm[1-5/8in.] or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission cable and power source wire in the same conduit.)
- ③ Be sure to provide designated grounding work to outdoor unit.
- ④ Give some allowance to wiring for electrical part box of indoor and outdoor units, because the box is sometimes removed at the time of service work.
- ⑤ Never connect 380~415V(220~240V) power source to terminal block of transmission cable. If connected, electrical parts will be burnt out.
- ⑥ Use 2-core shield cable for transmission cable. If transmission cables of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.



# 1. Electrical work

## 1-2. Power supply for Indoor unit and Outdoor unit

### 1-2-1. Electrical characteristics of Indoor unit

Symbols: MCA : Min.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor

Output : Fan motor rated output

| PMFY-P-VBM-E  | Power supply                   |                          |        | IFM        |        |
|---------------|--------------------------------|--------------------------|--------|------------|--------|
|               | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PMFY-P20VBM-E | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.25   | 0.028      | 0.20   |
| PMFY-P25VBM-E |                                |                          | 0.26   | 0.028      | 0.21   |
| PMFY-P32VBM-E |                                |                          | 0.26   | 0.028      | 0.21   |
| PMFY-P40VBM-E |                                |                          | 0.33   | 0.028      | 0.26   |

| PLFY-P-VCM-E  | Power supply    |                          |        | IFM        |        |
|---------------|-----------------|--------------------------|--------|------------|--------|
|               | Volts / Hz      | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PLFY-P20VCM-E | 220-240V / 50Hz | Max.: 264V<br>Min.: 198V | 0.29   | 0.011      | 0.23   |
| PLFY-P25VCM-E |                 |                          | 0.29   | 0.015      | 0.23   |
| PLFY-P32VCM-E |                 |                          | 0.35   | 0.020      | 0.28   |
| PLFY-P40VCM-E |                 |                          | 0.35   | 0.020      | 0.28   |

| PLFY-P-VBM-E   | Power supply                   |                          |        | IFM        |        |
|----------------|--------------------------------|--------------------------|--------|------------|--------|
|                | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PLFY-P32VBM-E  | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.28   | 0.050      | 0.22   |
| PLFY-P40VBM-E  |                                |                          | 0.36   | 0.050      | 0.29   |
| PLFY-P50VBM-E  |                                |                          | 0.36   | 0.050      | 0.29   |
| PLFY-P63VBM-E  |                                |                          | 0.45   | 0.050      | 0.36   |
| PLFY-P80VBM-E  |                                |                          | 0.64   | 0.050      | 0.51   |
| PLFY-P100VBM-E |                                |                          | 1.25   | 0.120      | 1.00   |
| PLFY-P125VBM-E |                                |                          | 1.34   | 0.120      | 1.07   |

| PLFY-P-VLMD-E   | Power supply                       |                          |                    | IFM        |                    |
|-----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                 | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PLFY-P20VLMD-E  | 220-240V / 50Hz<br>220-230V / 60Hz | Max.: 264V<br>Min.: 198V | 0.45 / 0.46        | 0.015      | 0.36 / 0.37        |
| PLFY-P25VLMD-E  |                                    |                          | 0.45 / 0.46        | 0.015      | 0.36 / 0.37        |
| PLFY-P32VLMD-E  |                                    |                          | 0.45 / 0.46        | 0.015      | 0.36 / 0.37        |
| PLFY-P40VLMD-E  |                                    |                          | 0.50 / 0.53        | 0.015      | 0.40 / 0.42        |
| PLFY-P50VLMD-E  |                                    |                          | 0.51 / 0.54        | 0.020      | 0.41 / 0.43        |
| PLFY-P63VLMD-E  |                                    |                          | 0.61 / 0.64        | 0.020      | 0.49 / 0.51        |
| PLFY-P80VLMD-E  |                                    |                          | 0.90 / 0.93        | 0.020      | 0.72 / 0.74        |
| PLFY-P100VLMD-E |                                    |                          | 0.94 / 1.10        | 0.030      | 0.75 / 0.88        |
| PLFY-P125VLMD-E |                                    |                          | 1.69 / 1.69        | 0.078x2    | 1.35 / 1.35        |

| PEFY-P-VMR-E-L/R  | Power supply                       |                          |                    | IFM        |                    |
|-------------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                   | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P20VMR-E-L/R | 220-240V / 50Hz<br>220-230V / 60Hz | Max.: 264V<br>Min.: 198V | 0.37 / 0.37        | 0.018      | 0.29 / 0.29        |
| PEFY-P25VMR-E-L/R |                                    |                          | 0.37 / 0.37        | 0.018      | 0.29 / 0.29        |
| PEFY-P32VMR-E-L/R |                                    |                          | 0.43 / 0.48        | 0.023      | 0.34 / 0.38        |

| PEFY-P-VMS1-E  | Power supply                       |                          |                    | IFM        |                    |
|----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P15VMS1-E | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 0.63 / 0.63        | 0.096      | 0.50 / 0.50        |
| PEFY-P20VMS1-E |                                    |                          | 0.70 / 0.70        | 0.096      | 0.56 / 0.56        |
| PEFY-P25VMS1-E |                                    |                          | 0.75 / 0.75        | 0.096      | 0.60 / 0.60        |
| PEFY-P32VMS1-E |                                    |                          | 0.75 / 0.75        | 0.096      | 0.60 / 0.60        |
| PEFY-P40VMS1-E |                                    |                          | 0.83 / 0.82        | 0.096      | 0.66 / 0.65        |
| PEFY-P50VMS1-E |                                    |                          | 1.02 / 1.00        | 0.096      | 0.81 / 0.80        |
| PEFY-P63VMS1-E |                                    |                          | 1.08 / 1.07        | 0.096      | 0.86 / 0.85        |

# 1. Electrical work

Symbols: MCA : Min.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor

Output : Fan motor rated output

| PEFY-P-VMS1L-E  | Power supply                       |                          |                    | IFM        |                    |
|-----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                 | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P15VMS1L-E | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 0.46 / 0.46        | 0.096      | 0.37 / 0.37        |
| PEFY-P20VMS1L-E |                                    |                          | 0.54 / 0.54        | 0.096      | 0.43 / 0.43        |
| PEFY-P25VMS1L-E |                                    |                          | 0.59 / 0.59        | 0.096      | 0.47 / 0.47        |
| PEFY-P32VMS1L-E |                                    |                          | 0.59 / 0.59        | 0.096      | 0.47 / 0.47        |
| PEFY-P40VMS1L-E |                                    |                          | 0.68 / 0.68        | 0.096      | 0.54 / 0.54        |
| PEFY-P50VMS1L-E |                                    |                          | 0.84 / 0.84        | 0.096      | 0.67 / 0.67        |
| PEFY-P63VMS1L-E |                                    |                          | 0.91 / 0.91        | 0.096      | 0.73 / 0.73        |

| PEFY-P-VMH-E   | Power supply                       |                          |                    | IFM        |                    |
|----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P40VMH-E  | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 1.21 / 1.61        | 0.08       | 0.97 / 1.29        |
| PEFY-P50VMH-E  |                                    |                          | 1.21 / 1.61        | 0.08       | 0.97 / 1.29        |
| PEFY-P63VMH-E  |                                    |                          | 1.49 / 1.95        | 0.12       | 1.19 / 1.56        |
| PEFY-P71VMH-E  |                                    |                          | 1.58 / 2.18        | 0.14       | 1.26 / 1.74        |
| PEFY-P80VMH-E  |                                    |                          | 1.85 / 2.40        | 0.18       | 1.48 / 1.92        |
| PEFY-P100VMH-E |                                    |                          | 3.03 / 3.93        | 0.26       | 2.42 / 3.14        |
| PEFY-P125VMH-E |                                    |                          | 3.03 / 3.93        | 0.26       | 2.42 / 3.14        |
| PEFY-P140VMH-E |                                    |                          | 3.10 / 3.98        | 0.26       | 2.48 / 3.18        |
| PEFY-P200VMH-E | 380-415V / 50Hz                    | Max.: 456V               | 2.03 / 2.33        | 0.76       | 1.62 / 1.86        |
| PEFY-P250VMH-E | 380-415V / 60Hz                    | Min.: 342V               | 2.50 / 2.88        | 1.08       | 2.00 / 2.30        |

| PEFY-P-VMA-E   | Power supply                       |                          |        | IFM        |        |
|----------------|------------------------------------|--------------------------|--------|------------|--------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PEFY-P20VMA-E  | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 1.03   | 0.085      | 0.82   |
| PEFY-P25VMA-E  |                                    |                          | 1.03   | 0.085      | 0.82   |
| PEFY-P32VMA-E  |                                    |                          | 1.18   | 0.085      | 0.95   |
| PEFY-P40VMA-E  |                                    |                          | 1.43   | 0.085      | 1.14   |
| PEFY-P50VMA-E  |                                    |                          | 1.54   | 0.085      | 1.23   |
| PEFY-P63VMA-E  |                                    |                          | 2.22   | 0.121      | 1.78   |
| PEFY-P71VMA-E  |                                    |                          | 2.46   | 0.121      | 1.97   |
| PEFY-P80VMA-E  |                                    |                          | 2.47   | 0.121      | 1.98   |
| PEFY-P100VMA-E |                                    |                          | 3.30   | 0.244      | 2.64   |
| PEFY-P125VMA-E |                                    |                          | 3.39   | 0.244      | 2.71   |
| PEFY-P140VMA-E |                                    |                          | 3.29   | 0.244      | 2.63   |

| PEFY-P-VMAL-E   | Power supply                       |                          |        | IFM        |        |
|-----------------|------------------------------------|--------------------------|--------|------------|--------|
|                 | Volts / Hz                         | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PEFY-P20VMAL-E  | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 0.92   | 0.085      | 0.74   |
| PEFY-P25VMAL-E  |                                    |                          | 0.92   | 0.085      | 0.74   |
| PEFY-P32VMAL-E  |                                    |                          | 1.07   | 0.085      | 0.86   |
| PEFY-P40VMAL-E  |                                    |                          | 1.32   | 0.085      | 1.06   |
| PEFY-P50VMAL-E  |                                    |                          | 1.40   | 0.085      | 1.12   |
| PEFY-P63VMAL-E  |                                    |                          | 2.08   | 0.121      | 1.67   |
| PEFY-P71VMAL-E  |                                    |                          | 2.32   | 0.121      | 1.86   |
| PEFY-P80VMAL-E  |                                    |                          | 2.36   | 0.121      | 1.89   |
| PEFY-P100VMAL-E |                                    |                          | 3.19   | 0.244      | 2.55   |
| PEFY-P125VMAL-E |                                    |                          | 3.27   | 0.244      | 2.62   |
| PEFY-P140VMAL-E |                                    |                          | 3.17   | 0.244      | 2.53   |

| PEFY-P-VMH-E-F   | Power supply    |             |                    | IFM        |                    |
|------------------|-----------------|-------------|--------------------|------------|--------------------|
|                  | Volts / Hz      | Range +-10% | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P80VMH-E-F  | 220-240V / 50Hz | Max.: 264V  | 0.92 / 1.15        | 0.09       | 0.73 / 0.92        |
| PEFY-P140VMH-E-F | 208-230V / 60Hz | Min.: 187V  | 1.58 / 1.84        | 0.14       | 1.26 / 1.47        |
| PEFY-P200VMH-E-F | 380-415V / 50Hz | Max.: 456V  | 0.73 / 0.93        | 0.20       | 0.58 / 0.74        |
| PEFY-P250VMH-E-F | 380-415V / 60Hz | Min.: 342V  | 0.85 / 1.08        | 0.23       | 0.68 / 0.86        |

# 1. Electrical work

Symbols: MCA : Min.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor

Output : Fan motor rated output

| PKFY-P-VBM-E  | Power supply                   |                          |        | IFM        |        |
|---------------|--------------------------------|--------------------------|--------|------------|--------|
|               | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PKFY-P15VBM-E | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.25   | 0.017      | 0.20   |
| PKFY-P20VBM-E |                                |                          | 0.25   | 0.017      | 0.20   |
| PKFY-P25VBM-E |                                |                          | 0.25   | 0.017      | 0.20   |

| PKFY-P-VHM-E  | Power supply                   |                          |        | IFM        |        |
|---------------|--------------------------------|--------------------------|--------|------------|--------|
|               | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PKFY-P32VHM-E | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.38   | 0.030      | 0.30   |
| PKFY-P40VHM-E |                                |                          | 0.38   | 0.030      | 0.30   |
| PKFY-P50VHM-E |                                |                          | 0.38   | 0.030      | 0.30   |

| PKFY-P-VKM-E   | Power supply                   |                          |        | IFM        |        |
|----------------|--------------------------------|--------------------------|--------|------------|--------|
|                | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PKFY-P63VKM-E  | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.36   | 0.056      | 0.29   |
| PKFY-P100VKM-E |                                |                          | 0.63   | 0.056      | 0.50   |

| PCFY-P-VKM-E   | Power supply                   |                          |        | IFM        |        |
|----------------|--------------------------------|--------------------------|--------|------------|--------|
|                | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PCFY-P40VKM-E  | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.35   | 0.090      | 0.28   |
| PCFY-P63VKM-E  |                                |                          | 0.41   | 0.095      | 0.33   |
| PCFY-P100VKM-E |                                |                          | 0.81   | 0.160      | 0.65   |
| PCFY-P125VKM-E |                                |                          | 0.95   | 0.160      | 0.76   |

| PFFY-P-VKM-E  | Power supply    |                          |        | IFM        |        |
|---------------|-----------------|--------------------------|--------|------------|--------|
|               | Volts / Hz      | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PFFY-P20VKM-E | 220-240V / 50Hz | Max.: 264V<br>Min.: 198V | 0.25   | 0.03x2     | 0.20   |
| PFFY-P25VKM-E |                 |                          | 0.25   | 0.03x2     | 0.20   |
| PFFY-P32VKM-E |                 |                          | 0.25   | 0.03x2     | 0.20   |
| PFFY-P40VKM-E |                 |                          | 0.30   | 0.03x2     | 0.24   |

| PFFY-P-VLEM-E  | Power supply                       |                          |                    | IFM        |                    |
|----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PFFY-P20VLEM-E | 220-240V / 50Hz<br>208-230V / 60Hz | Max.: 264V<br>Min.: 187V | 0.24 / 0.31        | 0.015      | 0.19 / 0.25        |
| PFFY-P25VLEM-E |                                    |                          | 0.24 / 0.31        | 0.015      | 0.19 / 0.25        |
| PFFY-P32VLEM-E |                                    |                          | 0.36 / 0.38        | 0.018      | 0.29 / 0.30        |
| PFFY-P40VLEM-E |                                    |                          | 0.40 / 0.41        | 0.030      | 0.32 / 0.33        |
| PFFY-P50VLEM-E |                                    |                          | 0.50 / 0.51        | 0.035      | 0.40 / 0.41        |
| PFFY-P63VLEM-E |                                    |                          | 0.58 / 0.59        | 0.050      | 0.46 / 0.47        |

# 1. Electrical work

Symbols: MCA : Min.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor Output : Fan motor rated output

| PFFY-P-VLRM-E  | Power supply                       |                          |                    | IFM        |                    |
|----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PFFY-P20VLRM-E | 220-240V / 50Hz<br>208-230V / 60Hz | Max.: 264V<br>Min.: 187V | 0.24 / 0.31        | 0.015      | 0.19 / 0.25        |
| PFFY-P25VLRM-E |                                    |                          | 0.24 / 0.31        | 0.015      | 0.19 / 0.25        |
| PFFY-P32VLRM-E |                                    |                          | 0.36 / 0.38        | 0.018      | 0.29 / 0.30        |
| PFFY-P40VLRM-E |                                    |                          | 0.40 / 0.41        | 0.030      | 0.32 / 0.33        |
| PFFY-P50VLRM-E |                                    |                          | 0.50 / 0.51        | 0.035      | 0.40 / 0.41        |
| PFFY-P63VLRM-E |                                    |                          | 0.58 / 0.59        | 0.050      | 0.46 / 0.47        |

| PFFY-P-VLRMM-E  | Power supply    |                          |                    | IFM        |                    |
|-----------------|-----------------|--------------------------|--------------------|------------|--------------------|
|                 | Volts / Hz      | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PFFY-P20VLRMM-E | 220-240V / 50Hz | Max.: 264V<br>Min.: 198V | 0.59 / 0.58        | 0.096      | 0.47 / 0.46        |
| PFFY-P25VLRMM-E |                 |                          | 0.59 / 0.58        | 0.096      | 0.47 / 0.46        |
| PFFY-P32VLRMM-E |                 |                          | 0.69 / 0.69        | 0.096      | 0.55 / 0.55        |
| PFFY-P40VLRMM-E |                 |                          | 0.78 / 0.76        | 0.096      | 0.62 / 0.61        |
| PFFY-P50VLRMM-E |                 |                          | 0.80 / 0.79        | 0.096      | 0.64 / 0.63        |
| PFFY-P63VLRMM-E |                 |                          | 0.93 / 0.93        | 0.096      | 0.74 / 0.74        |

| GUF-RDH3      | Power supply    |             |                    | IFM        |                    |
|---------------|-----------------|-------------|--------------------|------------|--------------------|
|               | Volts / Hz      | Range +-10% | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| GUF-50RD(H)3  | 220-240V / 50Hz | Max.: 264V  | 1.85 / 1.85        | 0.081x2    | 1.48 / 1.48        |
| GUF-100RD(H)3 | 220V / 60Hz     | Min.: 198V  | 3.49 / 3.49        | 0.16x2     | 2.79 / 2.79        |

# 1. Electrical work

## 1-2-2. Electrical characteristics of Outdoor unit

| Model                 | Unit Combination     | Units |                   |                      | Power supply | Compressor  |        | FAN         | RLA (A) (50 / 60Hz) |                |
|-----------------------|----------------------|-------|-------------------|----------------------|--------------|-------------|--------|-------------|---------------------|----------------|
|                       |                      | Hz    | Volts             | Voltage range        | MCA(A)       | Output (kW) | SC (A) | Output (kW) | Cooling             | Heating        |
| PUHY-RP200YJM-A(-BS)  | -                    | 50/60 | 380<br>400<br>415 | Max:456V<br>Min:342V | 16.1         | 4.8         | 8      | 0.92        | 9.5/9.1/8.7         | 9.6/9.1/8.7    |
| PUHY-RP250YJM-A(-BS)  | -                    |       |                   |                      | 19.9         | 6.8         |        | 0.92        | 13.9/13.2/12.7      | 13.2/12.5/12.1 |
| PUHY-RP300YJM-A(-BS)  | -                    |       |                   |                      | 22.6         | 8.2         |        | 0.92        | 15.8/15.0/14.4      | 16.6/15.8/15.2 |
| PUHY-RP350YJM-A(-BS)  | -                    |       |                   |                      | 29.7         | 9.9         |        | 0.92        | 20.7/19.6/18.9      | 22.1/21.0/20.2 |
| PUHY-RP400YSJM-A(-BS) | PUHY-RP200YJM-A(-BS) |       |                   |                      | 28.6         | 4.8         |        | 0.92        | 20.0/19.0/18.3      | 19.2/18.2/17.5 |
|                       | PUHY-RP200YJM-A(-BS) |       |                   |                      |              | 4.8         |        | 0.92        |                     |                |
| PUHY-RP450YSJM-A(-BS) | PUHY-RP200YJM-A(-BS) |       |                   |                      | 34.8         | 4.8         |        | 0.92        | 24.3/23.0/22.2      | 22.6/21.5/20.7 |
|                       | PUHY-RP250YJM-A(-BS) |       |                   |                      |              | 6.8         |        | 0.92        |                     |                |
| PUHY-RP500YSJM-A(-BS) | PUHY-RP250YJM-A(-BS) |       |                   |                      | 40.9         | 6.8         |        | 0.92        | 28.6/27.1/26.2      | 26.4/25.1/24.2 |
|                       | PUHY-RP250YJM-A(-BS) |       |                   |                      |              | 6.8         |        | 0.92        |                     |                |
| PUHY-RP550YSJM-A(-BS) | PUHY-RP250YJM-A(-BS) |       |                   |                      | 44.8         | 6.8         |        | 0.92        | 31.3/29.7/28.7      | 29.8/28.3/27.3 |
|                       | PUHY-RP300YJM-A(-BS) |       |                   |                      |              | 8.2         |        | 0.92        |                     |                |
| PUHY-RP600YSJM-A(-BS) | PUHY-RP300YJM-A(-BS) |       |                   |                      | 48.1         | 8.2         |        | 0.92        | 33.6/31.9/30.8      | 33.9/32.2/31.1 |
|                       | PUHY-RP300YJM-A(-BS) |       |                   |                      |              | 8.2         |        | 0.92        |                     |                |
| PUHY-RP650YSJM-A(-BS) | PUHY-RP300YJM-A(-BS) |       |                   |                      | 53.1         | 8.2         |        | 0.92        | 37.1/35.2/34.0      | 38.3/36.4/35.0 |
|                       | PUHY-RP350YJM-A(-BS) |       |                   |                      |              | 9.9         |        | 0.92        |                     |                |
| PUHY-RP700YSJM-A(-BS) | PUHY-RP200YJM-A(-BS) |       |                   |                      | 57.0         | 4.8         |        | 0.92        | 39.8/37.8/36.4      | 36.0/34.2/33.0 |
|                       | PUHY-RP250YJM-A(-BS) |       |                   |                      |              | 6.8         |        | 0.92        |                     |                |
|                       | PUHY-RP250YJM-A(-BS) |       |                   |                      |              | 6.8         |        | 0.92        |                     |                |
| PUHY-RP750YSJM-A(-BS) | PUHY-RP250YJM-A(-BS) |       |                   |                      | 62.0         | 6.8         |        | 0.92        | 43.3/41.2/39.7      | 39.8/37.8/36.5 |
|                       | PUHY-RP250YJM-A(-BS) |       |                   |                      |              | 6.8         |        | 0.92        |                     |                |
|                       | PUHY-RP250YJM-A(-BS) |       |                   |                      |              | 6.8         |        | 0.92        |                     |                |
| PUHY-RP800YSJM-A(-BS) | PUHY-RP250YJM-A(-BS) |       |                   |                      | 65.7         | 6.8         |        | 0.92        | 45.9/43.6/42.0      | 42.9/40.7/39.3 |
|                       | PUHY-RP250YJM-A(-BS) |       |                   |                      |              | 6.8         |        | 0.92        |                     |                |
|                       | PUHY-RP300YJM-A(-BS) |       |                   |                      |              | 8.2         |        | 0.92        |                     |                |
| PUHY-RP850YSJM-A(-BS) | PUHY-RP250YJM-A(-BS) |       |                   |                      | 69.0         | 6.8         |        | 0.92        | 48.2/45.8/44.1      | 47.2/44.8/43.2 |
|                       | PUHY-RP300YJM-A(-BS) |       |                   |                      |              | 8.2         |        | 0.92        |                     |                |
|                       | PUHY-RP300YJM-A(-BS) |       |                   |                      |              | 8.2         |        | 0.92        |                     |                |
| PUHY-RP900YSJM-A(-BS) | PUHY-RP300YJM-A(-BS) |       |                   |                      | 71.4         | 8.2         |        | 0.92        | 49.9/47.4/45.7      | 50.1/47.6/45.9 |
|                       | PUHY-RP300YJM-A(-BS) |       |                   |                      |              | 8.2         |        | 0.92        |                     |                |
|                       | PUHY-RP300YJM-A(-BS) |       |                   |                      |              | 8.2         |        | 0.92        |                     |                |

# 1. Electrical work

## 1-3. Power cable specifications

Thickness of wire for main power supply, capacities of the switch and system impedance

|                                            | Model           | Minimum wire thickness (mm <sup>2</sup> ) |        |        | Breaker for current leakage | Local switch (A) |      | Breaker for wiring (NFB) (A) | Max. Permissible System impedance |
|--------------------------------------------|-----------------|-------------------------------------------|--------|--------|-----------------------------|------------------|------|------------------------------|-----------------------------------|
|                                            |                 | Main cable                                | Branch | Ground |                             | Capacity         | Fuse |                              |                                   |
| Outdoor unit                               | PUHY-RP200YJM-A | 4                                         | -      | 4      | 30A 100mA 0.1sec. or less   | 25               | 25   | 30                           | *1                                |
|                                            | PUHY-RP250YJM-A | 4                                         | -      | 4      | 30A 100mA 0.1sec. or less   | 25               | 25   | 30                           | *1                                |
|                                            | PUHY-RP300YJM-A | 4                                         | -      | 4      | 30A 100mA 0.1sec. or less   | 32               | 32   | 30                           | *1                                |
|                                            | PUHY-RP350YJM-A | 6                                         | -      | 6      | 40A 100mA 0.1sec. or less   | 40               | 40   | 40                           | 0.26                              |
| Total operating current of the indoor unit | 16A or less     | 1.5                                       | 1.5    | 1.5    | 20A 100mA 0.1sec. or less   | 16               | 16   | 20                           | (apply to IEC61000-3-3)           |
|                                            | 25A or less     | 2.5                                       | 2.5    | 2.5    | 30A 100mA 0.1sec. or less   | 25               | 25   | 30                           | (apply to IEC61000-3-3)           |
|                                            | 32A or less     | 4.0                                       | 4.0    | 4.0    | 40A 100mA 0.1sec. or less   | 32               | 32   | 40                           | (apply to IEC61000-3-3)           |

\*1 Meets technical requirements of IEC61000-3-3

1. Use dedicated power supplies for the outdoor unit and indoor unit. Ensure OC and OS are wired individually.
2. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain water, etc.) when proceeding with the wiring and connections.
3. The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter. Make sure the power-supply voltage does not drop more than 10%.
4. Specific wiring requirements should adhere to the wiring regulations of the region.
5. Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 245 IEC57). For example, use wiring such as YZW.
6. A switch with at least 3 mm contact separation in each pole shall be provided by the Air Conditioner installer.

### ⚠ WARNING

- ◆ Be sure to use specified wires for connections and ensure no external force is imparted to terminal connections. If connections are not fixed firmly, heating or fire may result.
- ◆ Be sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.

### ⚠ CAUTION

- ◆ Some installation sites may require attachment of an earth leakage breaker for the inverter. If no earth leakage breaker is installed, there is a danger of electric shock.
- ◆ Do not use anything other than a breaker and fuse with the correct capacity. Using a fuse or wire of too large capacity may cause malfunction or fire.
- ◆ Check the existing wires for damage to insulation by measuring the resistance between the lead and the ground with a 500V ohmmeter. If the insulation resistance is less than 100 MΩ, replace the wires.

### Note

- ◆ This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the above table at the interface point (power service box) of the user's supply.
- ◆ The user must ensure that this device is connected only to a power supply system which fulfils the requirement above. If necessary, the user can ask the public power supply company for the system impedance at the interface point.
- ◆ This equipment complies with IEC 61000-3-12 provided that the short-circuit power  $S_{sc}$  is greater than or equal to  $S_{sc}(*2)$  at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power  $S_{sc}$  greater than or equal to  $S_{sc}(*2)$ .

$S_{sc}(*2)$

| Model         | $S_{sc}(MVA)$ |
|---------------|---------------|
| PUHY-RP200YJM | 1.25          |
| PUHY-RP250YJM | 1.54          |
| PUHY-RP300YJM | 1.75          |
| PUHY-RP350YJM | 2.31          |

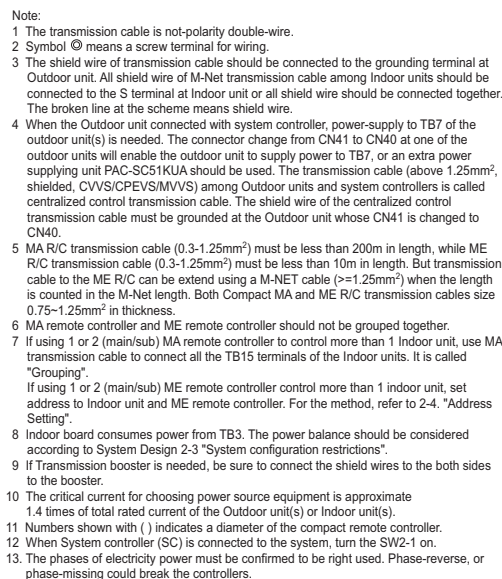
## 1-4. Power supply examples

1-4-1. PUHY-RP200-350YJM-A

- 
- (Using MA remote controller)  
Connecting TB5 terminal.
- Power supply  
1-phase  
220-240V 50/60Hz  
Note10
- \* Power supply specifications vary with the model of connected indoor units
- Indoor-outdoor transmission cable  
≥1.25mm<sup>2</sup>  
Shield cable
- MA R/C
- MA R/C
- MA R/C
- MA R/C cable  
0.3-1.25mm<sup>2</sup>  
(0.75-1.25mm<sup>2</sup>)  
≤200m  
Note5, Note11
- (Using ME remote controller)  
Connecting TB5 terminal.
- Power supply  
1-phase  
220-240V 50/60Hz  
Note10
- \* Power supply specifications vary with the model of connected indoor units
- Indoor-outdoor transmission cable  
≥1.25mm<sup>2</sup>  
Shield cable
- ME R/C
- ME R/C
- ME R/C
- ME R/C cable  
0.3-1.25mm<sup>2</sup>  
(0.75-1.25mm<sup>2</sup>)  
≤10m  
Note5, Note11

\*1 The Ground-fault interrupter should support Inverter circuit. (e.g. Mitsubishi Electric's NV-C series or equivalent).  
 \*2 Ground-fault interrupter should combine using of local switch or wiring breaker.  
 \*3 It shows data for B-type fuse of the breaker for current leakage.

The local standards and/or regulations is applicable at a higher priority.

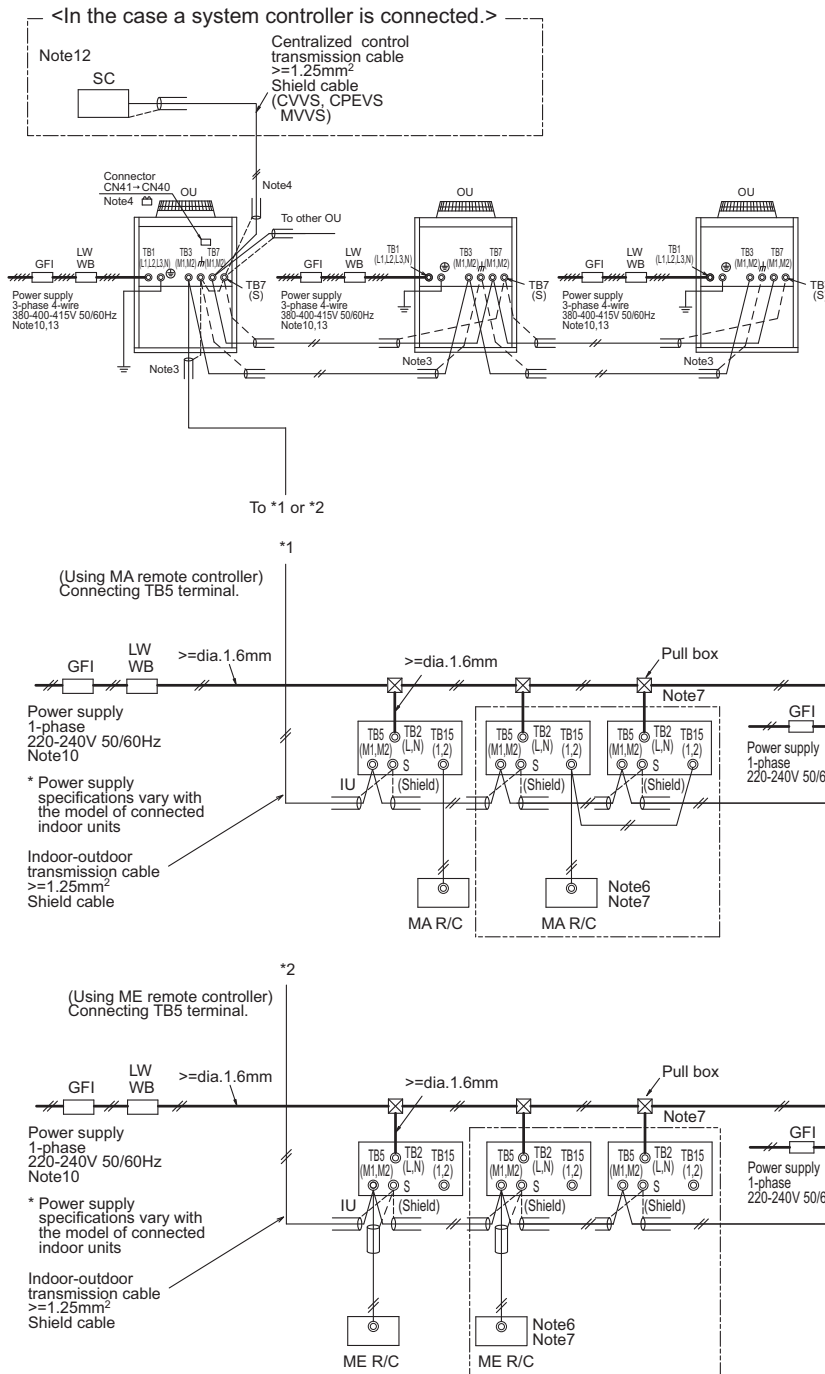


\*1 The Ground-fault interrupter should support Inverter circuit. (e.g. Mitsubishi Electric's NV-C series or equivalent)  
 \*2 Ground-fault interrupter should combine using of local switch or wiring breaker.  
 \*3 It shows data for B-type fuse of the breaker for current leakage.

## 1. Electrical work

The local standards and/or regulations is applicable at a higher priority.

1-4-3. PUHY-RP700-900YSJM-A



Note:

- 1 The transmission cable is not-polarity double-wire.
- 2 Symbol  means a screw terminal for wiring.
- 3 The shield wire of transmission cable should be connected to the grounding terminal at Outdoor unit. All shield wire of M-Net transmission cable among Indoor units should be connected to the S terminal at Indoor unit or all shield wire should be connected together. The broken line at the scheme means shield wire.
- 4 When the Outdoor unit connected with system controller, power-supply to TB7 of the outdoor unit(s) is needed. The connector change from CN41 to CN40 at one of the outdoor units may be needed the outdoor unit to supply power to TB7, or an extra power supplying unit PAC-SC51KUA should be used. The transmission cable (above 1.25mm<sup>2</sup>, shielded, CVV5/CPEV5/MMV5) among Outdoor units and system controllers is called centralized control transmission cable. The shield wire of the centralized control transmission cable must be grounded at the Outdoor unit whose CN41 is changed to CN40.
- 5 MA/R/C transmission cable (0.3-1.25mm<sup>2</sup>) must be less than 200m in length, while ME/R/C transmission cable (0.3-1.25mm<sup>2</sup>) must be less than 10m in length. But transmission cable to the ME/R/C can be extending using a M-NET cable (>1.25mm<sup>2</sup>) when the length is counted in the M-Net length. Both Compact MA and ME/R/C transmission cables size 0.75~1.25mm<sup>2</sup> in thickness.
- 6 MA remote controller and ME remote controller should not be grouped together.
- 7 If using 1 or 2 (main/sub) MA remote controller to control more than 1 Indoor unit, use MA transmission cable to connect all the TB15 terminals of the Indoor units. It is called "Grouping".  
If using 1 or 2 (main/sub) ME remote controller control more than 1 indoor unit, set address to Indoor unit and ME remote controller. For the method, refer to 2-4. "Address Setting".
- 8 Indoor board consumes power from TB3. The power balance should be considered according to System Design 2-3 "System configuration restrictions".
- 9 If Transmission booster is needed, be sure to connect the shield wires to the both sides to the booster.
- 10 The critical current for choosing power source equipment is approximate  
1.4 times of total rated current of the Outdoor unit(s) or Indoor unit(s).
- 11 Numbers shown with ( ) indicates a diameter of the compact remote controller.
- 12 When System controller (SC) is connected to the system, turn the SW2-1 on.
13. The phases of electricity power must be confirmed to be right used. Phase-reverse, or phase-missing could break the controllers.

| Symbol |                          | Model                                                                                                                    | Ground-fault interrupter<br>*1, *2 | Local switch |              | Wiring breaker | Minimum Wire thickness           |                                  |
|--------|--------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------|--------------|----------------|----------------------------------|----------------------------------|
|        |                          |                                                                                                                          |                                    | BC<br><A>    | OCP*3<br><A> | (NFB)<br><A>   | Power wire<br><mm <sup>2</sup> > | Earth wire<br><mm <sup>2</sup> > |
| GFI    | Ground-fault interrupter | PUHY-RP200YJM                                                                                                            | 30A 100mA 0.1sec. or less          | 25           | 25           | 30             | 4                                | 4                                |
| LW     | Local switch             | PUHY-RP250YJM                                                                                                            | 30A 100mA 0.1sec. or less          | 25           | 25           | 30             | 4                                | 4                                |
| BC     | Breaker capacity         | PUHY-RP300YJM                                                                                                            | 30A 100mA 0.1sec. or less          | 32           | 32           | 30             | 4                                | 4                                |
| OCP    | Over-current protector   | PUHY-RP350YJM                                                                                                            | 40A 100mA 0.1sec. or less          | 40           | 40           | 40             | 6                                | 6                                |
| WB     | Wiring breaker           |                                                                                                                          |                                    |              |              |                |                                  |                                  |
| NFB    | Non-fuse breaker         | *1 The Ground-fault interrupter should support Inverter circuit. (e.g. Mitsubishi Electric's NV-C series or equivalent). |                                    |              |              |                |                                  |                                  |
| OU     | Outdoor unit             | *2 Ground-fault interrupter should combine using of local switch or wiring breaker.                                      |                                    |              |              |                |                                  |                                  |
| IU     | Indoor unit              | *3 It shows data for B-type fuse of the breaker for current leakage.                                                     |                                    |              |              |                |                                  |                                  |
| SC     | System controller        |                                                                                                                          |                                    |              |              |                |                                  |                                  |
| MA R/C | MA remote controller     |                                                                                                                          |                                    |              |              |                |                                  |                                  |
| ME R/C | ME remote controller     |                                                                                                                          |                                    |              |              |                |                                  |                                  |

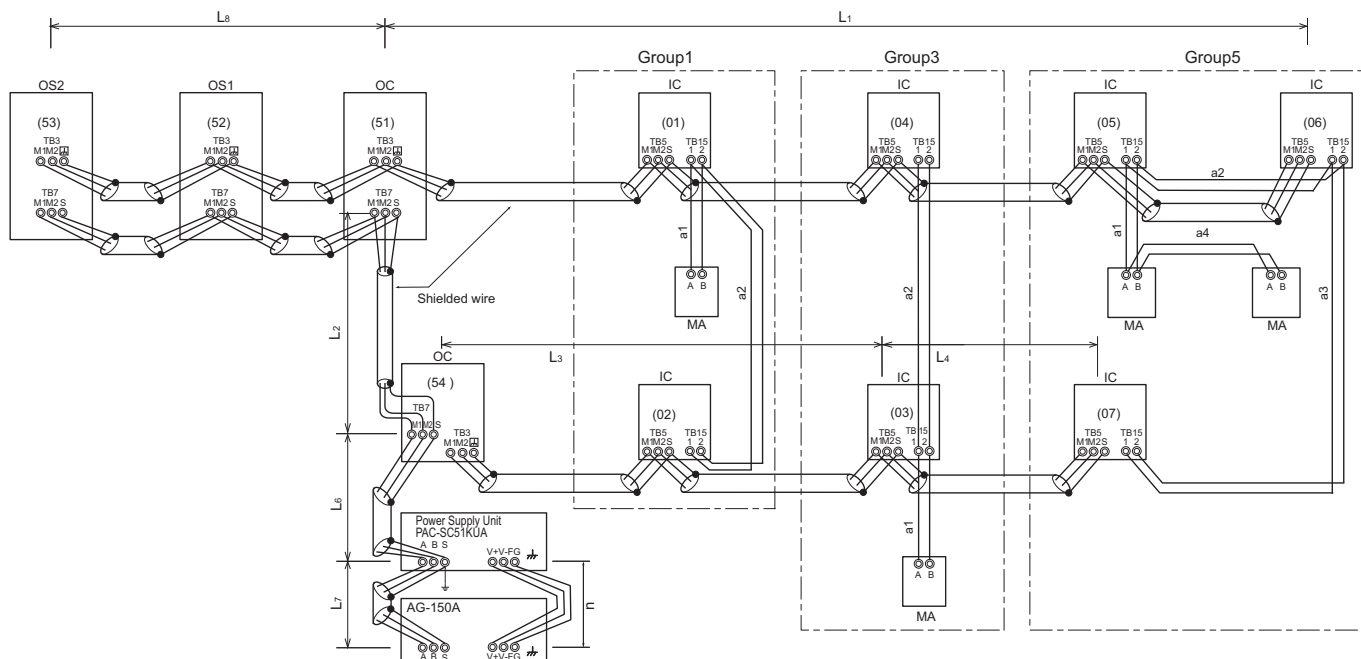
## 2. M-NET control

### 2-1. Transmission cable length limitation

#### 2-1-1. Using MA Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

|                                       |                                               |                                    |                                        |
|---------------------------------------|-----------------------------------------------|------------------------------------|----------------------------------------|
| Max. length via Outdoor (M-NET cable) | $L1+L2+L3+L4$ , $L1+L2+L6+L7$ , $L3+L4+L6+L7$ | $\leq 500\text{m}[1640\text{ft.}]$ | 1.25mm <sup>2</sup> [AWG16] or thicker |
| Max. length to Outdoor (M-NET cable)  | $L1+L8$ , $L3+L4$ , $L6$ , $L2+L6+L8$ , $L7$  | $\leq 200\text{m}[656\text{ft.}]$  | 1.25mm <sup>2</sup> [AWG16] or thicker |
| Max. length from MA to Indoor         | $a1+a2$ , $a1+a2+a3+a4$                       | $\leq 200\text{m}[656\text{ft.}]$  | 0.3-1.25 mm <sup>2</sup> [AWG22-16]    |
| 24VDC to AG-150A                      | n                                             | $\leq 50\text{m}[164\text{ft.}]$   | 0.75-2.0 mm <sup>2</sup> [AWG18-14]    |



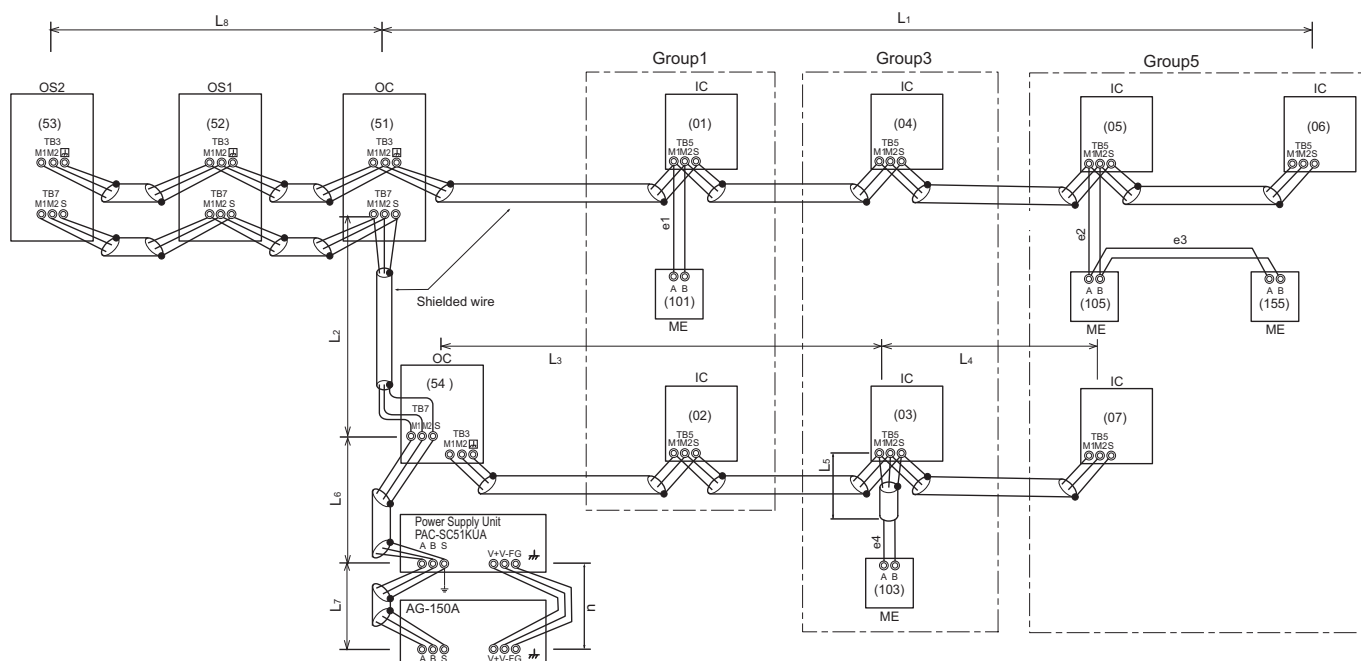
OC, OS1, OS2 : Outdoor unit controller; IC : Indoor unit controller; MA : MA remote controller

#### 2-1-2. Using ME Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

|                                       |                                                               |                                    |                                        |
|---------------------------------------|---------------------------------------------------------------|------------------------------------|----------------------------------------|
| Max. length via Outdoor (M-NET cable) | $L1+L2+L3+L4$ , $L1+L2+L6+L7$ , $L1+L2+L3+L5$ , $L3+L4+L6+L7$ | $\leq 500\text{m}[1640\text{ft.}]$ | 1.25mm <sup>2</sup> [AWG16] or thicker |
| Max. length to Outdoor (M-NET cable)  | $L1+L8$ , $L3+L4$ , $L6$ , $L2+L6+L8$ , $L7$ , $L3+L5$        | $\leq 200\text{m}[656\text{ft.}]$  | 1.25mm <sup>2</sup> [AWG16] or thicker |
| Max. length from ME to Indoor         | $e1$ , $e2+e3$ , $e4$                                         | $\leq 10\text{m}[32\text{ft.}]^*1$ | 0.3-1.25 mm <sup>2</sup> [AWG22-16] *1 |
| 24VDC to AG-150A                      | n                                                             | $\leq 50\text{m}[164\text{ft.}]$   | 0.75-2.0 mm <sup>2</sup> [AWG18-14]    |

\*1. If the length from ME to Indoor exceed 10m, use 1.25 mm<sup>2</sup> [AWG16] shielded cable, but the total length should be counted into Max. length via Outdoor.



OC, OS1, OS2 : Outdoor unit controller; IC : Indoor unit controller; ME : ME remote controller

## 2. M-NET control

### 2-2. Transmission cable specifications

|               | Transmission cables (Li)                       | ME Remote controller cables                                                                 | MA Remote controller cables                                                       |
|---------------|------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Type of cable | Shielding wire (2-core)<br>CVVS, CPEVS or MVVS | Sheathed 2-core cable (unshielded)<br>CVV                                                   |                                                                                   |
| Cable size    | More than 1.25mm <sup>2</sup> [AWG16]          | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1           | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1 |
| Remarks       | —                                              | When 10m [32ft] is exceeded, use cables with the same specification as transmission cables. | Max length : 200m [656ft]                                                         |

\*1 Connected with simple remote controller.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable  
CPEVS : PE insulated PVC jacketed shielded communication cable  
CVV : PV insulated PVC sheathed control cable

#### CAUTION

Check the existing wires for damage to insulation by measuring the resistance between the lead and the ground with a 500V ohmmeter. If the insulation resistance is less than 100 MΩ, replace the wires.

Disconnect all controllers before measuring insulation resistance to avoid controller damage.

Note: Disconnect the system controller before starting a refrigerant oil recovery operation, if one is connected.

Reconnect the system controller after the completion of the refrigerant oil recovery operation.

## 2. M-NET control

### 2-2-1. Reusability check of the existing transmission lines for Replace Multi units

Use the flowcharts on the following pages to determine the reusability of the existing transmission lines.  
Obtain the system configuration drawing, fill out the checklist, and make a decision based on them.

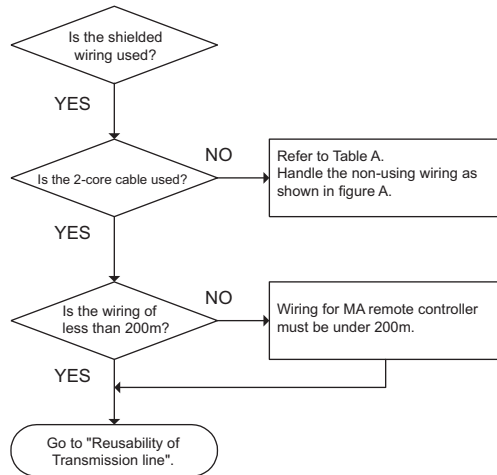
Existing transmission lines reusability checklist

| Check items                                                                                                                                                                                    | Findings                | Notes |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------|
| 1. Remote controller cable (MA remote controller)                                                                                                                                              |                         |       |
| (1) Length                                                                                                                                                                                     | m                       |       |
| (2) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (3) Number of cores                                                                                                                                                                            | Cores                   |       |
| (4) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| 2. Remote controller cable (M-NET remote controller)                                                                                                                                           |                         |       |
| (1) Length *1                                                                                                                                                                                  | m                       |       |
| (2) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (3) Number of cores                                                                                                                                                                            | Cores                   |       |
| (4) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| 3. Remote controller cable (system controller)                                                                                                                                                 |                         |       |
| (1) Length *1                                                                                                                                                                                  | m                       |       |
| (2) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (3) Number of cores                                                                                                                                                                            | Cores                   |       |
| (4) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| (5) System controller connection (Indoor unit system/centralized control system)                                                                                                               | Indoor/Centralized      |       |
| 4. Indoor-outdoor transmission line                                                                                                                                                            |                         |       |
| (1) Refrigerant system (Single/Multiple)                                                                                                                                                       | Single/Multiple         |       |
| (2) Length of transmission line to the farthest unit *1                                                                                                                                        | m                       |       |
| (3) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (4) Number of cores                                                                                                                                                                            | Cores                   |       |
| (5) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| (6) Number of connected indoor units                                                                                                                                                           | units                   |       |
| 5. Centralized control transmission line                                                                                                                                                       |                         |       |
| (1) Length of transmission line to the farthest unit *1                                                                                                                                        | m                       |       |
| (2) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (3) Number of cores                                                                                                                                                                            | Cores                   |       |
| (4) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| 6. Availability of system configuration drawing (Obtain one as much as possible.)                                                                                                              | Available/Not available |       |
| 7. Noise-related problems with the old units<br>(Write down the nature of the problem in the "Notes" column, if any.)                                                                          | Available/Not available |       |
| 8. Are there any high-frequency medical equipment in the adjacent area that could cause noise-interference?<br>(Write down the specific nature of the concerns in the "Notes" column, if any.) | Available/Not available |       |

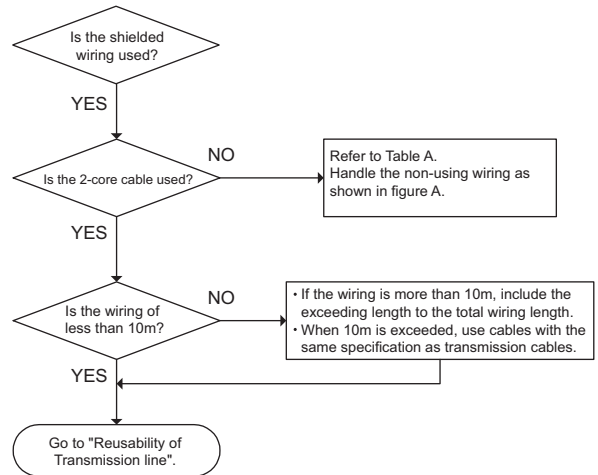
\*1: If the remote controller (M-NET/System controller) length exceeds 10 m, include the exceeded length in the calculation of the transmission line length (indoor-outdoor transmission line/centralized control system).

## 2. M-NET control

### Reusability of MA remote controller wiring



### Reusability of M-NET remote controller wiring



### Reusability of System controller wiring

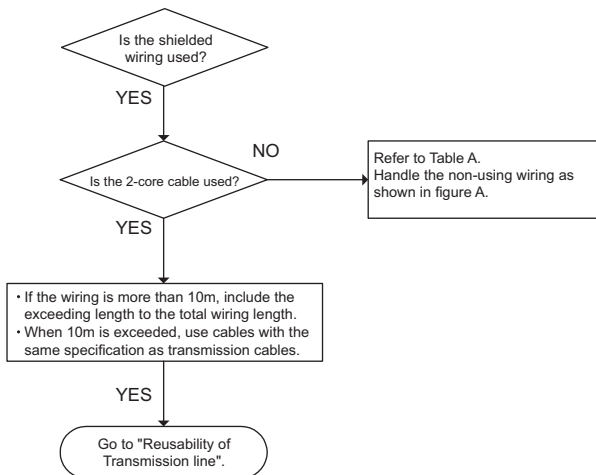


Figure A. Non-using wiring

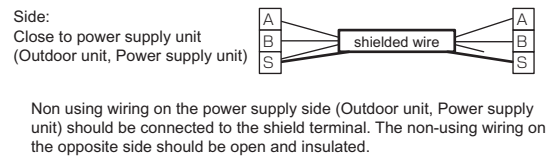


Table A

|               | Transmission cables (Li)                       | ME Remote controller cables                                                                 | MA Remote controller cables                                                       |
|---------------|------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Type of cable | Shielding wire (2-core)<br>CVVS, CPEVS or MVVS | Sheathed 2-core cable (unshielded)<br>CVV                                                   |                                                                                   |
| Cable size    | More than 1.25mm <sup>2</sup> [AWG16]          | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1           | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1 |
| Remarks       | —                                              | When 10m [32ft] is exceeded, use cables with the same specification as transmission cables. | Max length : 200m [656ft]                                                         |

\*1 Connected with simple remote controller.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable  
CPEVS : PE insulated PVC jacketed shielded communication cable  
CVV : PV insulated PVC sheathed control cable

## 2. M-NET control

### Reusability of Transmission line

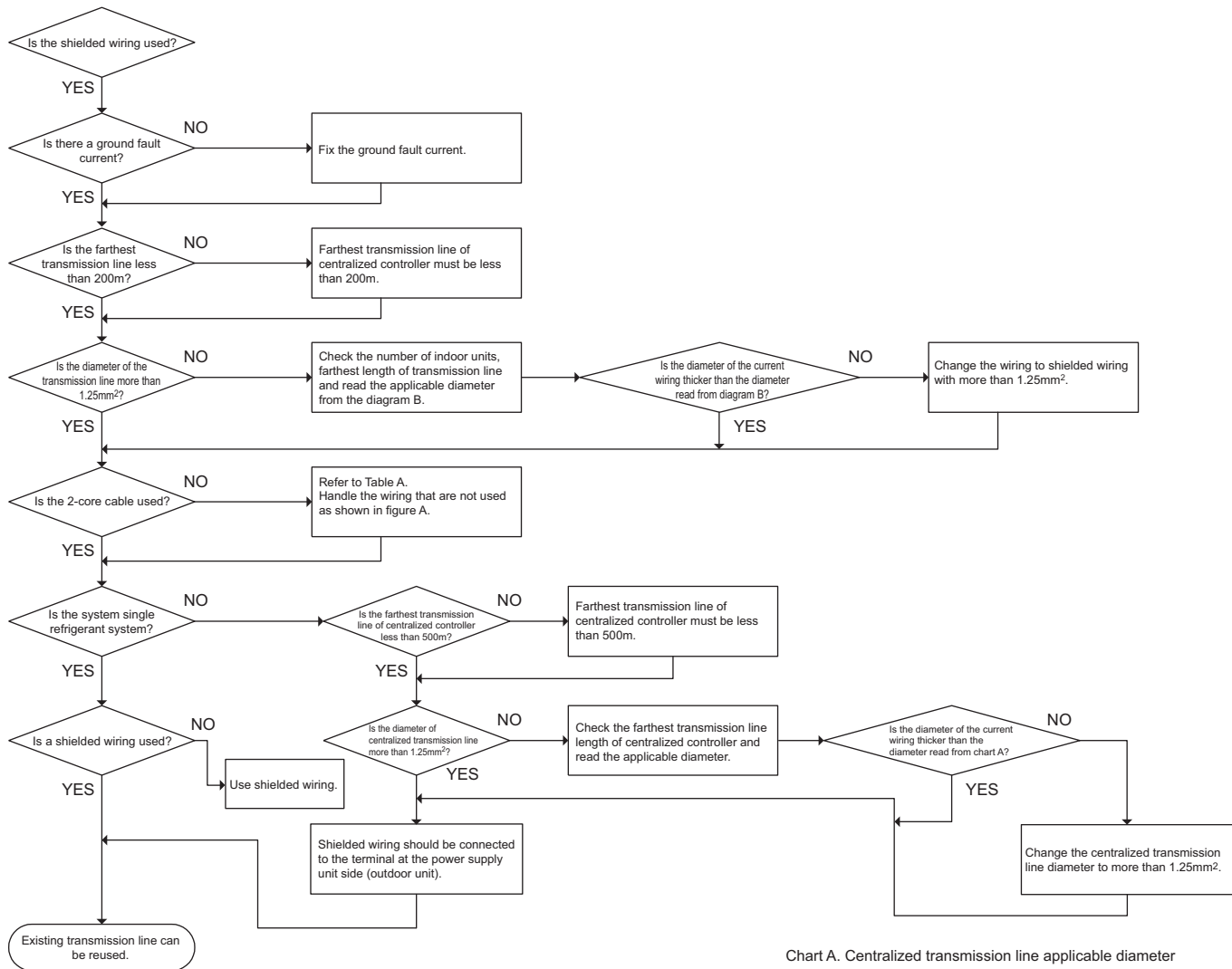
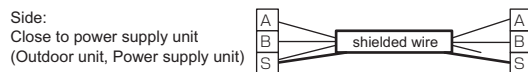


Figure A. Non-using wiring



Non using wiring on the power supply side (Outdoor unit, Power supply unit) should be connected to the shield terminal. The non-using wiring on the opposite side should be open and insulated.

Chart A. Centralized transmission line applicable diameter

| Length between power supply unit to outdoor unit and system controller | Wiring diameter              |
|------------------------------------------------------------------------|------------------------------|
| Less than 200m                                                         | More than 0.5mm <sup>2</sup> |
| Less than 130m                                                         | More than 0.3mm <sup>2</sup> |

Table A

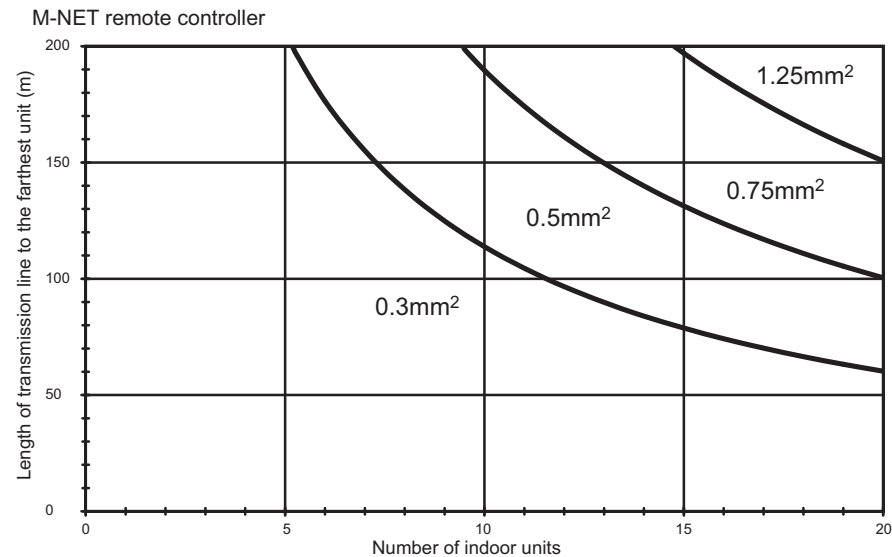
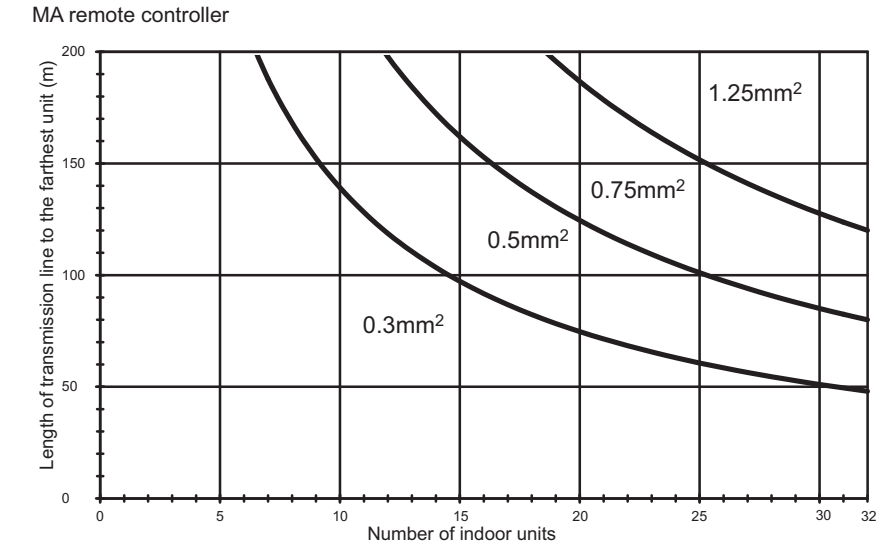
|               | Transmission cables (Li)                       | ME Remote controller cables                                                                 | MA Remote controller cables                                                       |
|---------------|------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Type of cable | Shielding wire (2-core)<br>CVVS, CPEVS or MVVS | Sheathed 2-core cable (unshielded)<br>CVV                                                   |                                                                                   |
| Cable size    | More than 1.25mm <sup>2</sup> [AWG16]          | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1           | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1 |
| Remarks       | —                                              | When 10m [32ft] is exceeded, use cables with the same specification as transmission cables. | Max length : 200m [656ft]                                                         |

\*1 Connected with simple remote controller.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable  
CPEVS : PE insulated PVC jacketed shielded communication cable  
CVV : PV insulated PVC sheathed control cable

## 2. M-NET control

Diagram B Checking the cable size



## 2. M-NET control

### 2-3. System configuration restrictions

#### 2-3-1. Common restrictions for the CITYMULTI system

For each Outdoor unit, the maximum connectable quantity of Indoor unit is specified at its Specifications table.

- A) 1 Group of Indoor units can have 1-16 Indoor units;  
\*OA processing unit GUF-RD(H) is considered as Indoor unit.
- B) Maximum 2 remote controllers for 1 Group; (MA/ME remote controllers cannot be present together in 1group.)
- C) 1 LOSSNAY unit can interlock maximum 16 Indoor units; 1 Indoor unit can interlock only 1 LOSSNAY unit.
- D) Maximum 3 System controllers are connectable when connecting to TB3 of the Outdoor unit.
- E) Maximum 3 System controllers are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the Outdoor unit.
- F) 4 System controllers or more are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the power supply unit PAC-SC51KUA. Details refer to 2-3-3-C.

\*System controller connected as described in D) and E) would have a risk that the failure of connected Outdoor unit would stop power supply to the System controller.

#### 2-3-2. Ensuring proper communication power for M-NET

In order to ensure proper communication among Outdoor unit, Indoor unit, LOSSNAY, and OA processing unit GUF-RD(H), and Controllers, the transmission power situation for the M-NET should be observed. In some cases, Transmission booster should be used. Taking the power consumption of Indoor unit sized P20-P140 as 1, the equivalent power consumption or supply of others are listed at Table 2-3-1 and Table 2-3-2.

Table 2-3-1 The equivalent power consumption

| Indoor, OA unit               | Indoor unit     | BC controller | MARC. LOSSNAY                                                      | ME Remote Contr.                       | Timers, System Contr.                                |        | ON/OFF Contr. | MN Conrerter  |               |
|-------------------------------|-----------------|---------------|--------------------------------------------------------------------|----------------------------------------|------------------------------------------------------|--------|---------------|---------------|---------------|
| Sized P15-P140<br>GUF-50, 100 | Sized P200,P250 | CMB           | PAR-21MAA<br>PAC-YT51CRA(B)<br>PAR-FA32MA<br>LGH-RX-E<br>PZ-60DR-E | PAR-F27MEA<br>PAC-SE51CRA<br>PZ-52SF-E | PAC-SC30GRA<br>PAC-SF44SRA<br>PAC-YT34STA<br>AG-150A | GB-50A | PAC-YT40ANRA  | CMS<br>-MNF-B | CMS<br>-MNG-E |
| 1                             | 7               | 2             | 0                                                                  | 1/4                                    | 1/2                                                  | 3      | 1             | 1/2           | 2             |

\*RC : Remote Controller

Table 2-3-2 The equivalent power supply

| Transmission Booster | Power supply unit | Expansion controller | Outdoor unit                  | Outdoor unit       |
|----------------------|-------------------|----------------------|-------------------------------|--------------------|
| PAC-SF46EPA          | PAC-SC51KUA       | PAC-YG50ECA          | Connector TB3 and TB7 total * | Connector TB7 only |
| 25                   | 5                 | 6                    | 32                            | 6                  |

\*If PAC-SC51KUA is used to supply power at TB7 side, no power supply need from Outdoor unit at TB7, Connector TB3 itself will therefore have 32. Not applicable to the PUMY model.

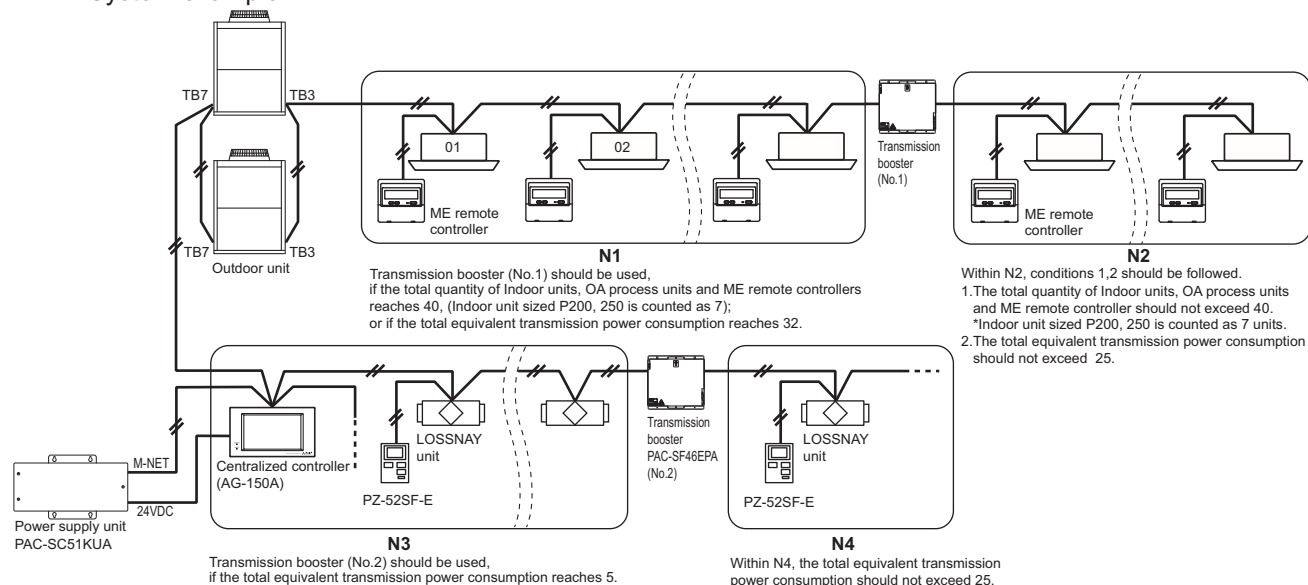
With the equivalent power consumption values in Table 2-3-1 and Table 2-3-2, PAC-SF46EPA can be designed into the air-conditioner system to ensure proper system communication according to 2-3-2-A, B, C.

2-3-2-A) Firstly, count from TB3 at TB3 side the total quantity of Indoor units, OA process units and ME remote controller, Timers and System controllers. If the total quantity reaches 40, a PAC-SF46EPA should be set. In this case, Indoor unit sized P200, 250 is counted as 7 Indoor units, but MA remote controller(s), LOSSNAY, PZ-60DR-E is NOT counted.

2-3-2-B) Secondly, count from TB7 side to TB3 side the total transmission power consumption. If the total power consumption reaches 32, a PAC-SF46EPA should be set. Yet, if a PAC-SC51KUA is used to supply power at TB7 side, count from TB3 side only.

2-3-2-C) Thirdly, count from TB7 at TB7 side the total transmission power consumption, If the total power consumption reaches 6, a PAC-SF46EPA should be set.

#### ■ System example



## 2. M-NET control

### 2-3-3. Ensuring proper power supply to System controller

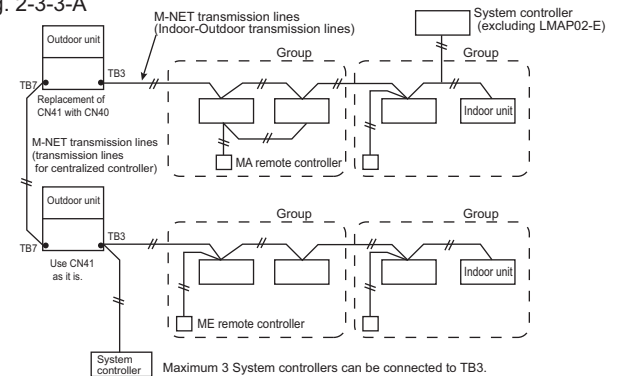
The power to System controller (excluding LMAP02-E) is supplied via M-NET transmission line. M-NET transmission line at TB7 side is called Centralized control transmission line while one at TB3 side is called Indoor-Outdoor transmission line. There are 3 ways to supply power to the System controller .

- A) Connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.
- B) Connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.
- C) Connecting to TB7 of the Outdoor unit but receiving power from power supply unit PAC-SC51KUA.

2-3-3-A. When connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 3 System controllers can be connected to TB3. If there is more than 1 Outdoor unit, it is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor unit.

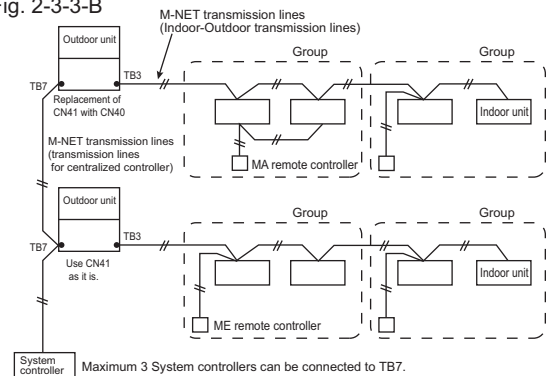
Fig. 2-3-3-A



2-3-3-B. When connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 3 System controllers can be connected to TB7 and receiving power from the Outdoor unit. It is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor unit.

Fig. 2-3-3-B

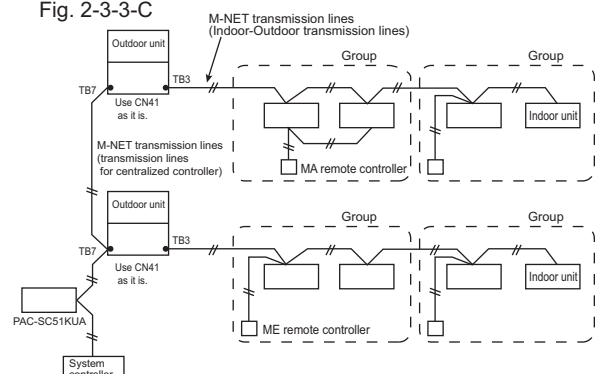


2-3-3-C. When connecting to TB7 of the Outdoor unit but receiving power from PAC-SC51KUA.

When using PAC-SC51KUA to supply transmission power, the power supply connector CN41 on the Outdoor units should be kept as it is. It is also a factory setting. 1 PAC-SC51KUA supports maximum 1 AG-150A unit due to the limited power 24VDC at its TB3. However, 1 PAC-SC51KUA supplies transmission power at its TB2 equal to 5 Indoor units, which is referable at Table 2-3-2.

If PZ-52SF-E, Timers, System controller, ON/OFF controller connected to TB7 consume transmission power more than 5 (Indoor units), Transmission booster PAC-SF46EPA is needed. PAC-SF46EPA supplies transmission power equal to 25 Indoor units.

Fig. 2-3-3-C



#### **CAUTION**

AG-150A is recommended to connect to TB7 because it performs back-up to a number of data.

In an air conditioner system has more than 1 Outdoor units, AG-150A receiving transmission power through TB7 on one of the Outdoor units would have a risk that the connected Outdoor unit failure would stop power supply to AG-150A, and disrupt the whole system.

When applying apportioned electric power function, AG-150A is necessary to be connected to TB7 and has its own power supply unit PAC-SC51KUA.\*

\*Power supply unit PAC-SC51KUA is for AG-150A.

## 2. M-NET control

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### 2-3-4. Power supply to LM adapter LMAP02-E

1-phase 220-240V AC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary when connecting only the LMAP02-E. Yet, make sure to change the power supply changeover connector CN41 to CN40 on the LM adapter.

### 2-3-5. Power supply to expansion controller

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary.

The expansion controller supplies power through TB3, which equals 6 indoor units. (refer to Table 2-3-2)

### 2-3-6. Power supply to BM ADAPTER

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary when only BM ADAPTER is connected.

Yet, make sure to move the power jumper from CN41 to CN40 on the BM ADAPTER.

## 2. M-NET control

### 2-4. Address setting

#### 2-4-1. Switch operation

In order to constitute CITY MULTI in a complete system, switch operation for setting the unit address No. and connection No. is required.

① Address No. of outdoor unit, indoor unit and remote controller.

The address No. is set at the address setting board.

In the case of R2 system, it is necessary to set the same No. at the branch No. switch of indoor unit as that of the BC controller connected. (When connecting two or more branches, use the lowest branch No.)

② Caution for switch operations

- Be sure to shut off power source before switch setting. If operated with power source on, switch can not operate properly.
- No units with identical unit address shall exist in one whole air conditioner system. If set erroneously, the system can not operate.

③ MA remote controller

- When connecting only one remote controller to one group, it is always the main remote controller. When connecting two remote controllers to one group, set one remote controller as the main remote controller and the other as the sub remote controller.
- The factory setting is "Main".

#### PAR-21MAA

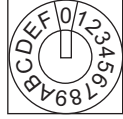
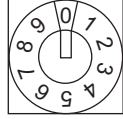
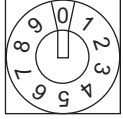
The MA remote controller does not have the switches listed above.  
Refer to the installation manual for the function setting.

#### PAC-YT51CRB

##### Setting the dip switches

There are switches on the front of the remote controller. Remote controller Main/Sub and other function settings are performed using these switches. Ordinarily, only change the Main/Sub setting of SW1.  
(The factory settings are all "ON".)

| SW No | SW contents Main                     | ON      | OFF        | Comment                                                                                |
|-------|--------------------------------------|---------|------------|----------------------------------------------------------------------------------------|
| 1     | Remote controller Main/Sub setting   | Main    | Sub        | Set one of the two remote controllers at one group to "Main"                           |
| 2     | Temperature display units setting    | Celsius | Fahrenheit | When the temperature is displayed in [Fahrenheit], set to "No".                        |
| 3     | Cooling/heating display in AUTO mode | Yes     | No         | When you do not want to display "Cooling" and "Heating" in the Auto mode, set to "No". |

| Rotary switch                                                                       |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Branch No. setting                                                                  | Unit address No. setting                                                            |                                                                                     |
|  |  |  |

## 2. M-NET control

### 2-4-2. Rule of setting address

| Unit                    |                                      | Address setting         | Example                                                                                                                                                                                                                                                                                                                                                    | Note                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|--------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indoor unit             |                                      | 01 ~ 50                 | <div><div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>1</div></div>                                                                                                                                                              | Use the most recent address within the same group of indoor units. Make the indoor units address connected to the BC controller (Sub) larger than the indoor units address connected to the BC controller (Main).<br>If applicable, set the sub BC controllers in an PURY system in the following order:<br>(1) Indoor unit to be connected to the BC controller (Main)<br>(2) Indoor unit to be connected to the BC controller (No.1 Sub)<br>(3) Indoor unit to be connected to the BC controller (No.2 Sub)<br>Set the address so that (1)<(2)<(3) |
| Outdoor unit            |                                      | 51 ~ 99, 100<br>(Note1) | <div><div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>1</div></div>                                                                                                                                                              | The smallest address of indoor unit in same refrigerant system + 50<br>Assign sequential address numbers to the outdoor units in one refrigerant circuit system. OC, OS1 and OS2 are automatically detected. (Note 2)<br>* Please reset one of them to an address between 51 and 99 when two addresses overlap.<br>* The address automatically becomes "100" if it is set as "01~ 50"                                                                                                                                                                |
| BC controller (Main)    |                                      | 52 ~ 99, 100            | <div><div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>1</div></div>                                                                                                                                                              | The address of outdoor unit + 1<br>* Please reset one of them to an address between 51 and 99 when two addresses overlap.<br>* The address automatically becomes "100" if it is set as "01~ 50"                                                                                                                                                                                                                                                                                                                                                      |
| BC controller (Sub)     |                                      | 52 ~ 99, 100            | <div><div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>1</div></div>                                                                                                                                                              | Lowest address within the indoor units connected to the BC controller (Sub) plus 50.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Local remote controller | ME, LOSSNAY Remote controller (Main) | 101 ~ 150               | <div><div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>1</div></div>                                                                                                                                                              | The smallest address of indoor unit in the group + 100<br>* The place of "100" is fixed to "1"                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                         | ME, LOSSNAY Remote controller (Sub)  | 151 ~ 199, 200          | <div><div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>1</div></div>                                                                                                                                                              | The address of main remote controller + 50<br>* The address automatically becomes "200" if it is set as "00"                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| System controller       | Group remote controller              | 201 ~ 250               | <div><div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>1</div></div>                                                                                                                                                              | The smallest group No. to be managed + 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                         | System remote controller             | 000, 201 ~ 250          | <div><div><div>100</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div> <div>1</div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                         | ON/OFF remote controller             | 000, 201 ~ 250          | <div><div><div>100</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div> <div>1</div> | The smallest group No. to be managed + 200<br>* The smallest group No. to be managed is changeable.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                         | AG-150A<br>GB-50A                    | 000, 201 ~ 250          | <div><div><div>100</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div> <div>1</div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                         | PAC-YG50ECA                          | 000, 201 ~ 250          | <div><div><div>100</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div> <div>1</div> | * Settings are made on the initial screen of AG-150A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                         | BAC-HD150                            | 000, 201 ~ 250          | <div><div><div>100</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div> <div>1</div> | * Settings are made with setting tool of BM ADAPTER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                         | LMA02-E                              | 201 ~ 250               | <div><div><div>10</div><div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div></div><div>1</div></div>                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

Note1: To set the address to "100", set it to "50"

Note2: Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected.

OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.

## 2. M-NET control

### 2-4-3. System examples

#### Factory setting

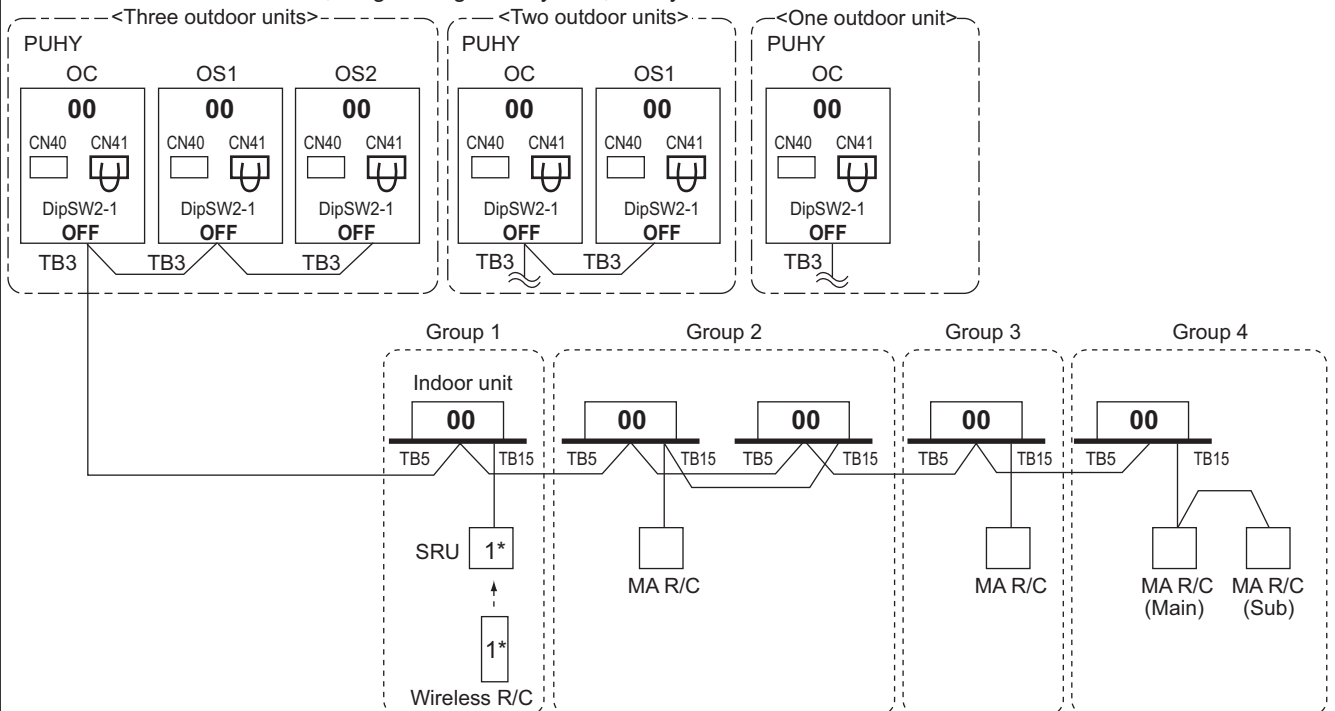
Original switch setting of the outdoors, indoors, controllers, LMAP and BM ADAPTER at shipment is as follows.

- Outdoor unit : Address: 00, CN41: U (Jumper), DipSW2-1: OFF
- Indoor unit : Address: 00
- ME remote controller : Address: 101
- LMAP : Address: 247, CN41: U (Jumper), DipSW1-2: OFF
- BM ADAPTER : Address: 00

#### Setting at the site

- DipSW2-1(Outdoor) : When the System Controller is used, all the Dip SW2-1 at the outdoor units should be set to "ON". \* Dip SW2-1 remains OFF when only LMAP02-E is used.
- DipSW1-2(LMAP) : When the LMAP is used together with System Controller, DipSW1-2 at the LMAP should be set to "ON".
- CN40/CN41 : Change jumper from CN41 to CN 40 at outdoor control board will activate central transmission power supply to TB7;  
(Change jumper at only one outdoor unit when activating the transmission power supply without using a power supply unit.)  
Change jumper from CN41 to CN 40 at LMAP will activate transmission power supply to LMAP itself;  
Power supply unit is recommended to use for a system having more than 1 outdoor unit, because the central transmission power supply from TB7 of one of outdoor units is risking that the outdoor unit failure may let down the whole system controller system.

#### 2-4-3-1. MA remote controller, Single-refrigerant-system, No System Controller



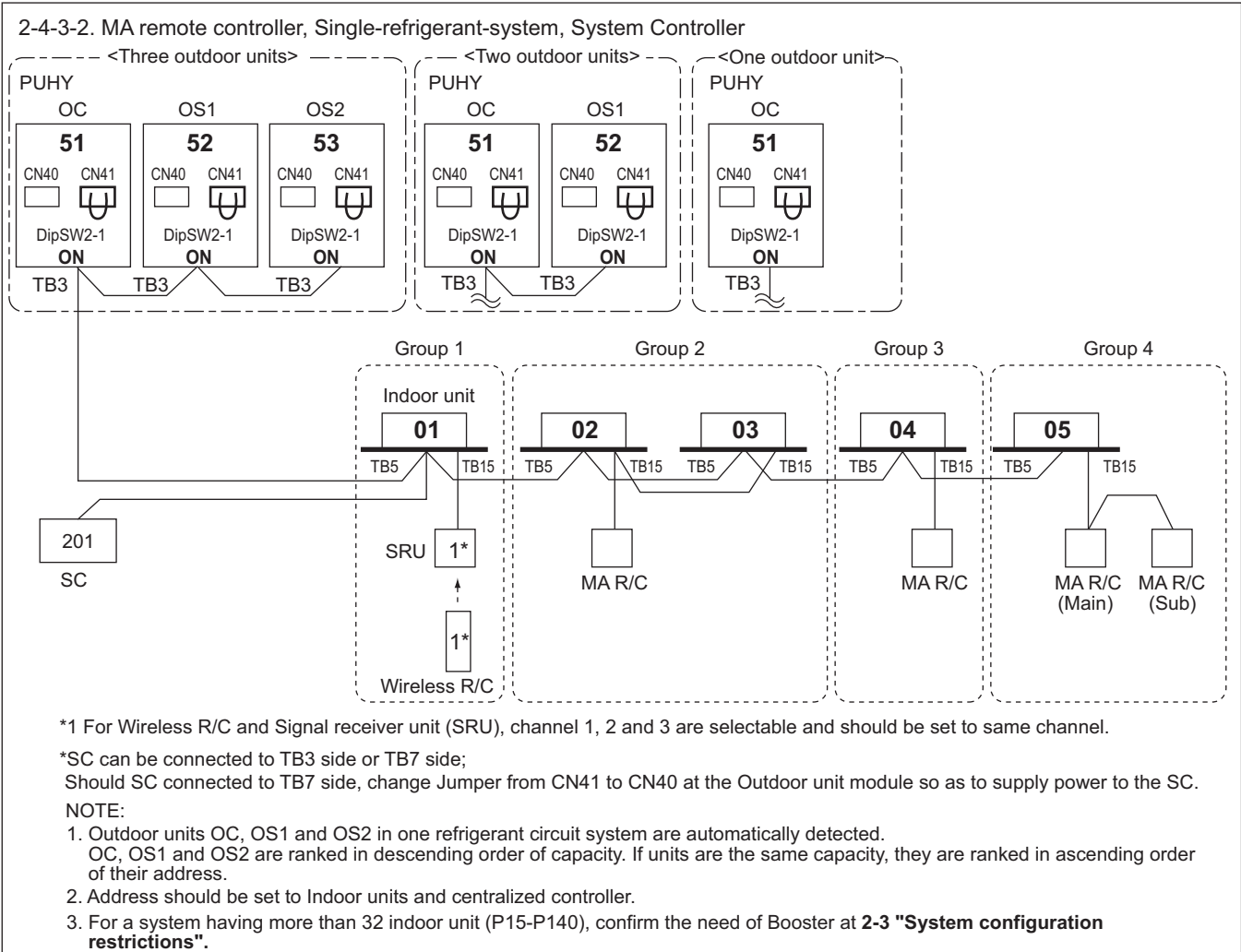
\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

#### NOTE:

1. Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected. OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. No address setting is needed.
3. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at 2-3 "System configuration restrictions".

## 2. M-NET control

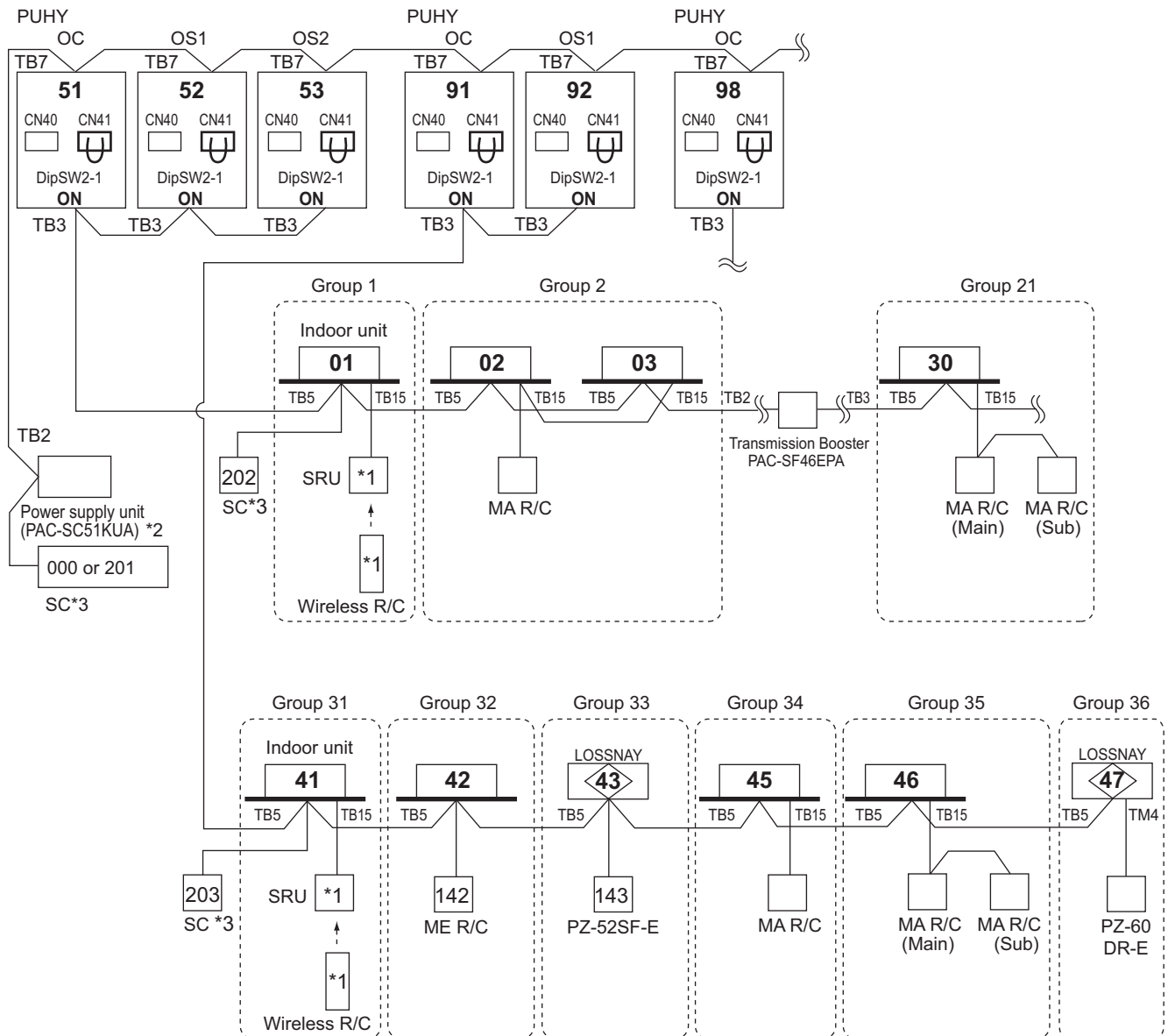
### 2-4-3. System examples



## 2. M-NET control

### 2-4-3. System examples

2-4-3-3. MA remote controller, Multi-refrigerant-system, System Controller at TB7/TB3 side, Booster for long M-NET wiring



\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*2 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System. For AG-150A, 24V DC should be used with the PAC-SC51KUA.

\*3 When multiple system controllers are connected in the system, set the controller with more functions than others as a "main" controller and others as "sub".

Make the setting to only one of the system controllers for "prohibition of operation from local remote controller".

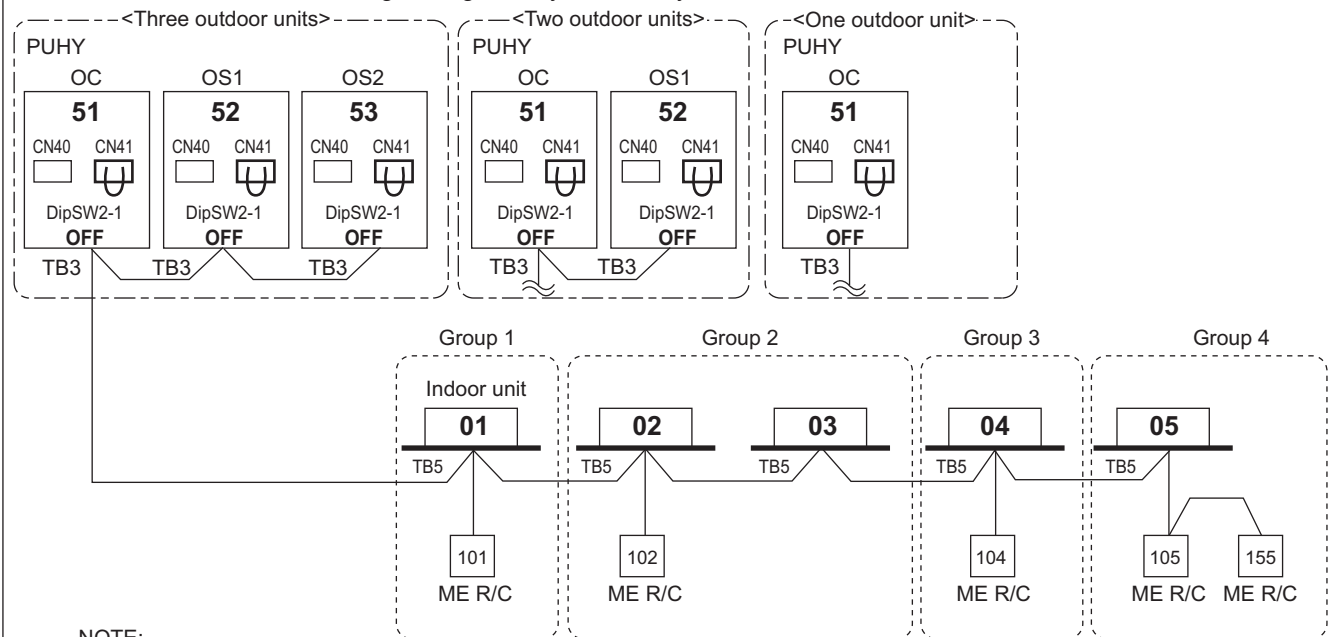
#### NOTE:

- Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected. OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
- Address should be set to Indoor units, LOSSNAY and system controller.
- M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME remote controller consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to 2-3 "System configuration restrictions".

## 2. M-NET control

### 2-4-3. System examples

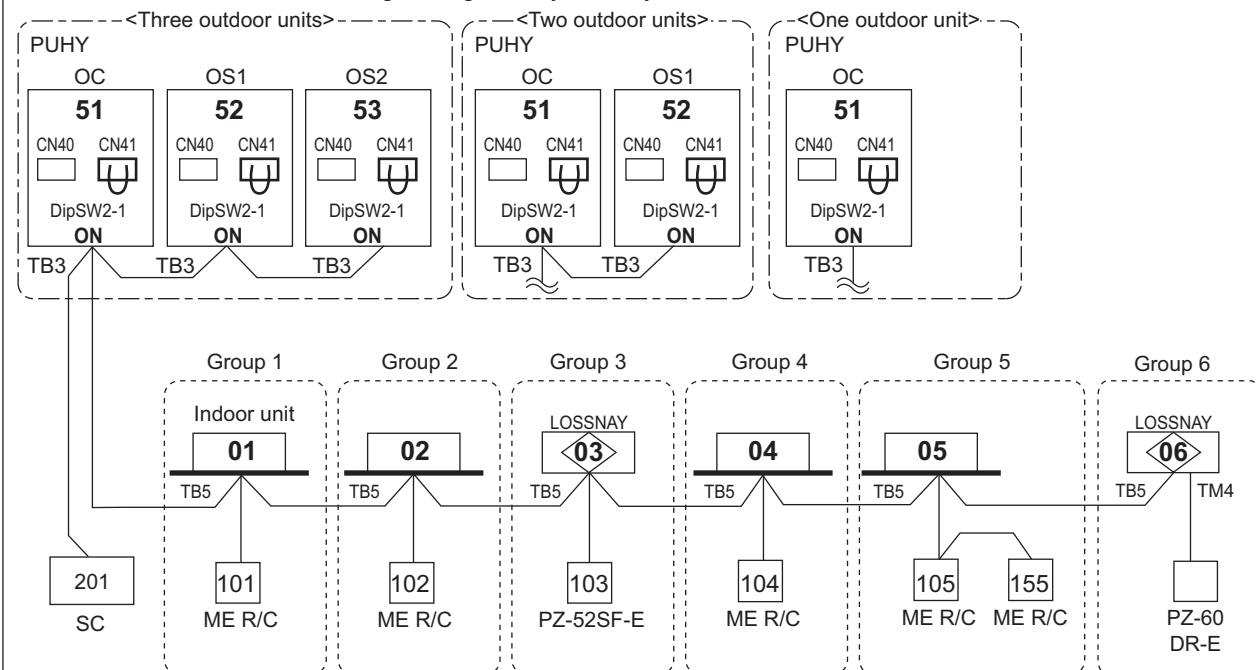
2-4-3-4. ME remote controller, Single-refrigerant-system, No system controller



NOTE:

1. Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected. OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. Address should be set to Indoor units, system controller and ME remote controllers.
3. M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME RC consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to 2-3 "System configuration restrictions".

2-4-3-5. ME remote controller, Single-refrigerant-system, System controller, LOSSNAY



\*SC can be connected to TB3 side or TB7 side;

Should SC connected to TB7 side, change Jumper from CN41 to CN40 at the Outdoor unit module so as to supply power to the SC.

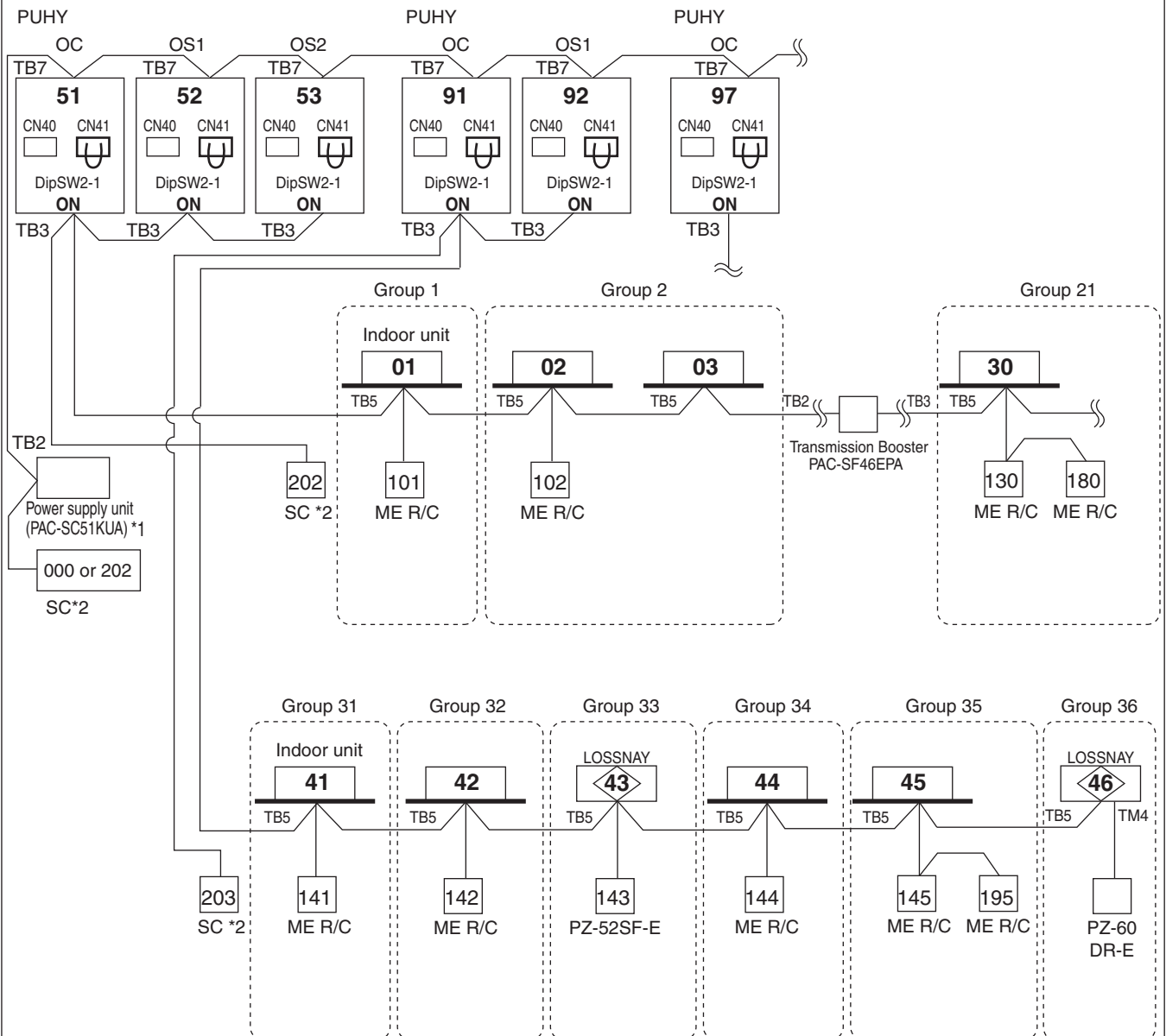
NOTE:

1. Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected. OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
2. Address should be set to Indoor units, LOSSNAY centralized controller, ME remote controllers.
3. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at 2-3 "System configuration restrictions".

## 2. M-NET control

### 2-4-3. System examples

2-4-3-6. ME remote controller, Multi-refrigerant-system, System Controller at TB 7side, LOSSNAY, Booster for long M-NET wiring



\*1 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System.  
For AG-150A, 24V DC should be used with the PAC-SC51KUA.

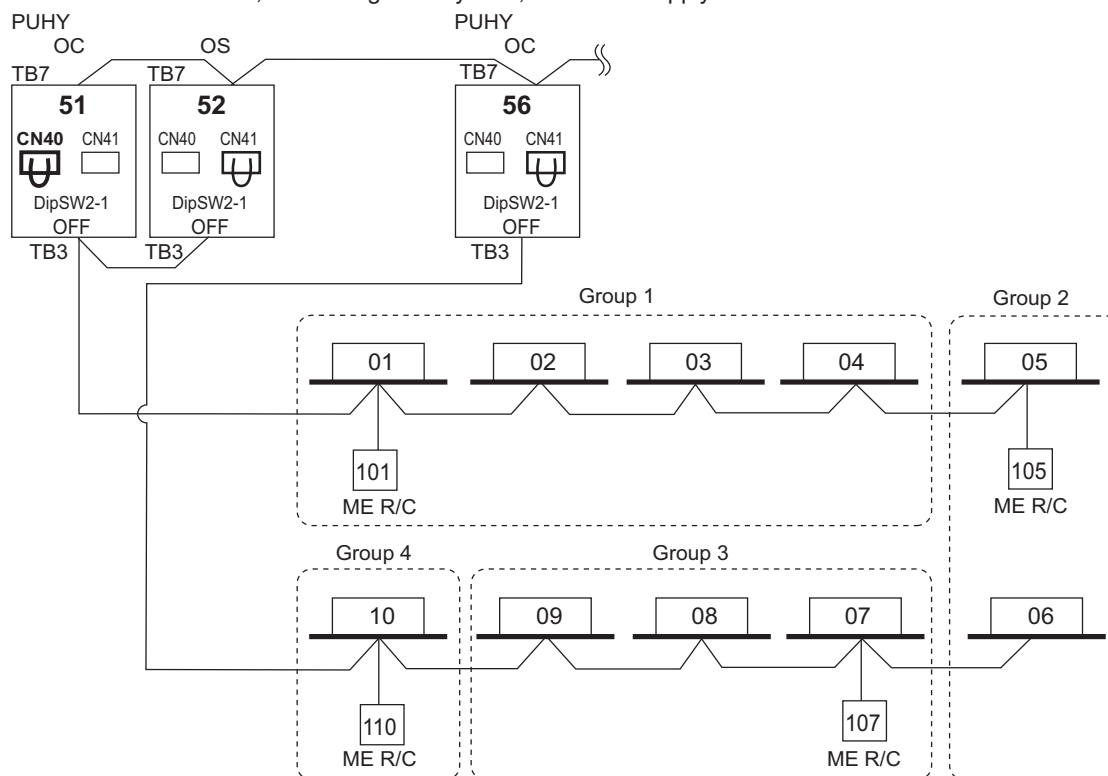
\*2 When multiple system controllers are connected in the system, set the controller with more functions than others as a "main" controller and others as "sub".  
Make the setting to only one of the system controllers for "prohibition of operation from local remote controller".

#### NOTE:

- Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected.  
OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.
- M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME remote controller consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to 2-3 "System configuration restrictions".

## 2. M-NET control

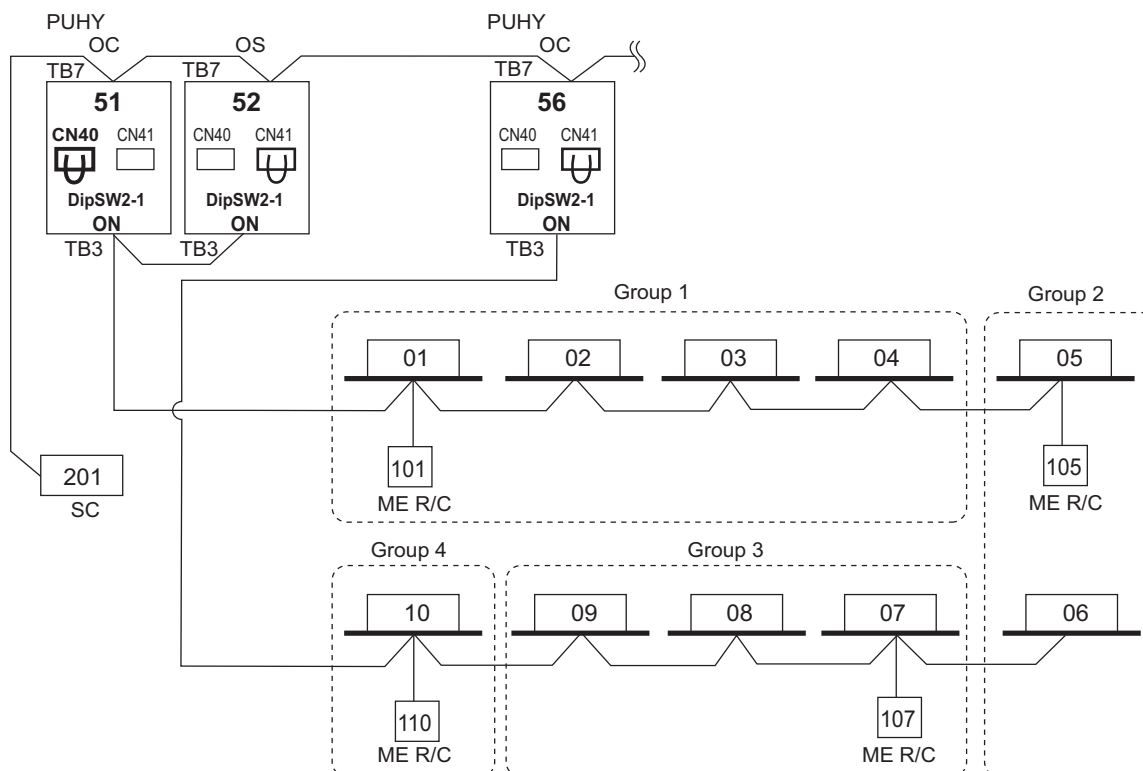
2-4-3-7. ME remote controller, Multi-refrigerant-system, No Power supply unit



**NOTE**

- It is necessary to change the connector to CN40 on the outdoor unit control board (only one outdoor unit) when the group is set between other refrigerant systems.
- It is necessary to set on the remote controller by manual when group sets on the different refrigerant system. Please refer to remote controller installation manual.

2-4-3-8. ME remote controller, Multi-refrigerant-system, System Controller at TB7 side, No Power supply unit



**NOTE**

- It is necessary to change the connector to CN40 on the outdoor unit control board (only one outdoor unit) when the group is set between other refrigerant systems.
- It is necessary to set on the remote controller by manual when group sets on the different refrigerant system. Please refer to remote controller installation manual.

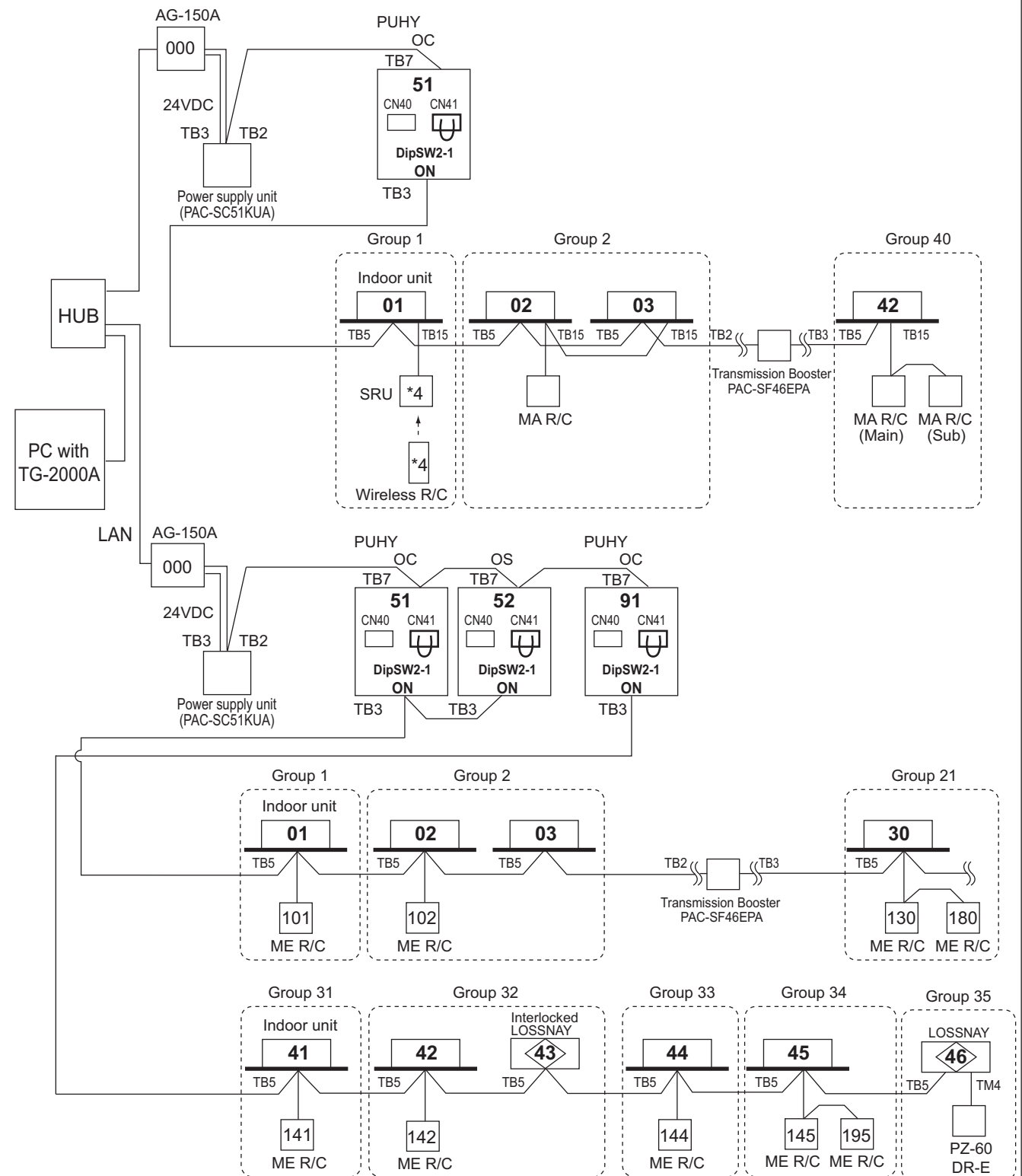
## 2. M-NET control

### 2-4-3-9. TG-2000A(\*1)+AG-150A\*2

AG-150A can control max. 50 indoor units;

TG-2000A can control max. 40 pieces of AG-150A;\*3

TG-2000A can control max. 2000 indoor units.



\*1 TG-2000A (Ver.5.5 or later) supports AG-150A (Ver.1 series).

TG-2000A (Ver. 6.1), supports AG-150A (Ver. 2.1) connected with the expansion controller (EC).

\*2 AG-150A (Ver.1 series) does not support the expansion controller (EC).

\*3 When AG-150A connected with the expansion controller (EC) is connected, the number of EC will be the maximum controllable number.  
TG-2000A can control up to 40 pieces of EC or AG-150A (without EC connection).

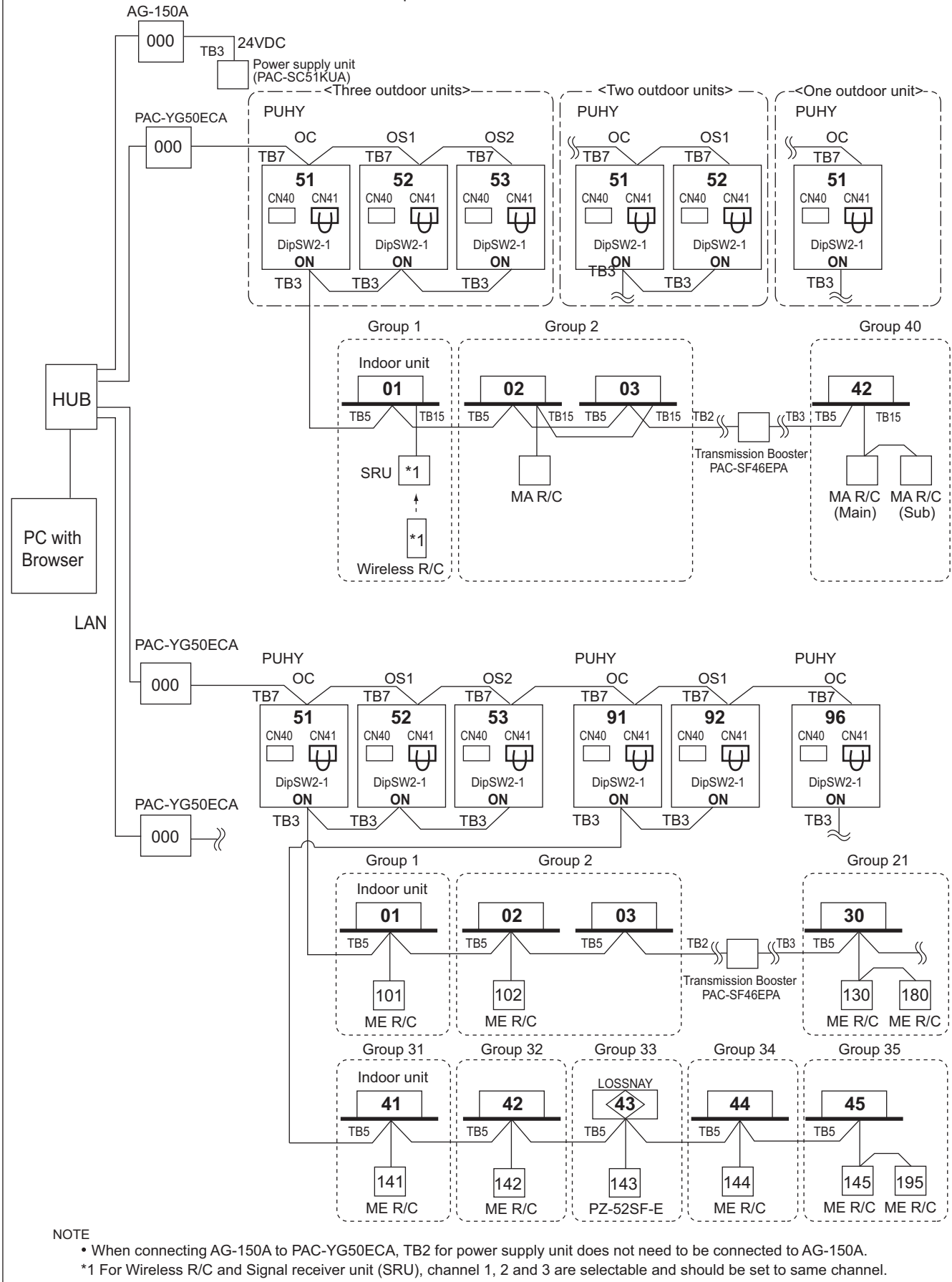
\*4 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

## 2. M-NET control

### 2-4-3. System examples

#### 2-4-3-10. AG-150A + PAC-YG50ECA (Expansion controller)

AG-150A can control max. 150 indoor units/ via expansion controllers.



## 2. M-NET control

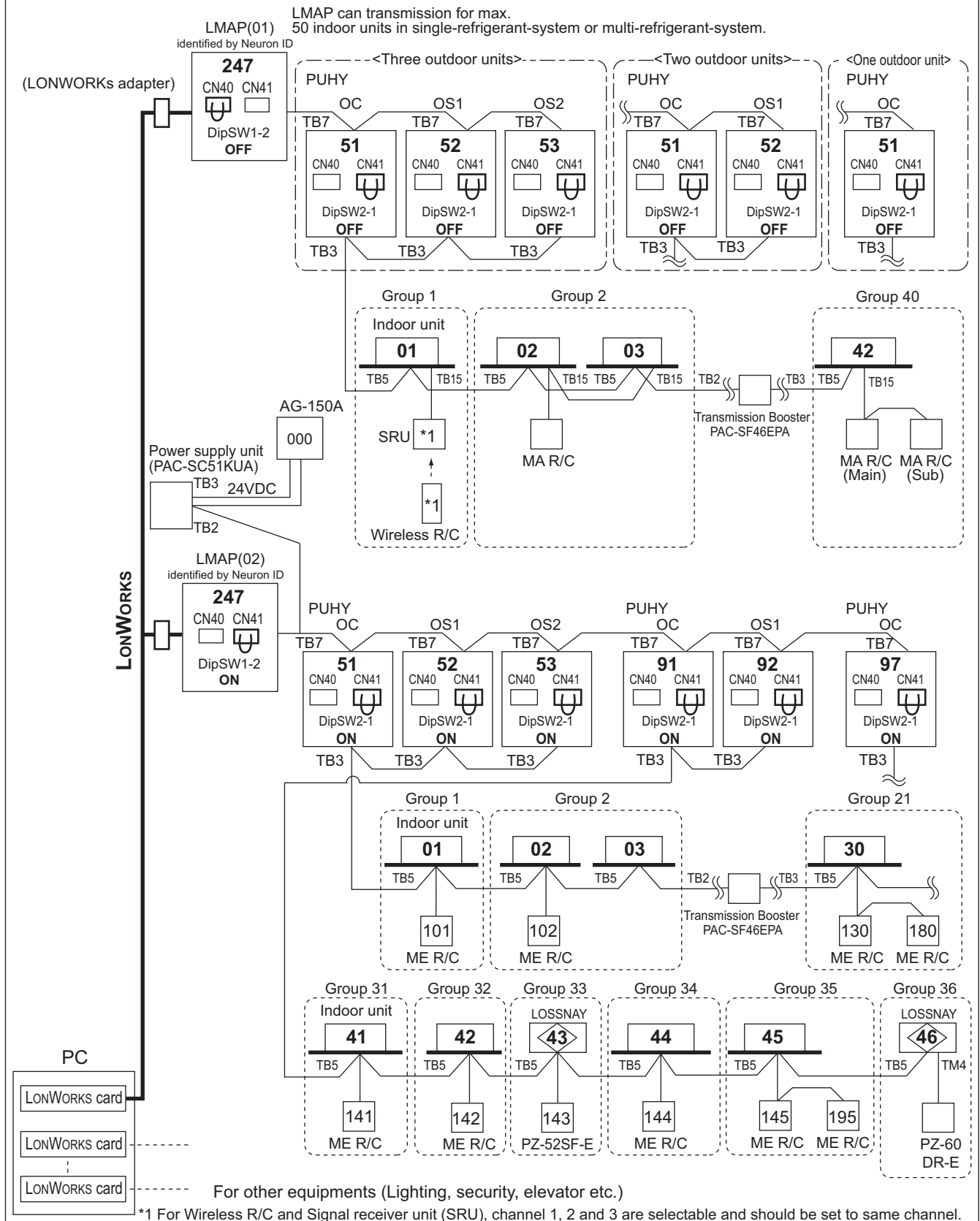
### 2-4-3. System examples

#### 2-4-3-11. LMAP

LMAP can transmission for max. 50 indoor units;

If system controller (SC) is used, DipSW1-2 at LMAP and DipSW2-1 at Outdoor unit should set to "ON".

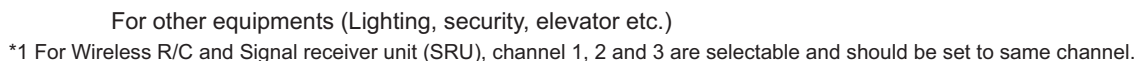
Change Jumper from CN41 to CN40 to activate power supply to LMAP itself for those LMAP connected without system controller (SC).



### 2-4-3. System examples

BM ADAPTER can transmission for max. 50 indoor units;  
Change Jumper from CN41 to CN40 to activate power supply to BM ADAPTER itself for those BM ADAPTER connected without the power supply unit.

BM ADAPTER can transmission for max.  
50 indoor units in single-refrigerant-system or multi-refrigerant-system.

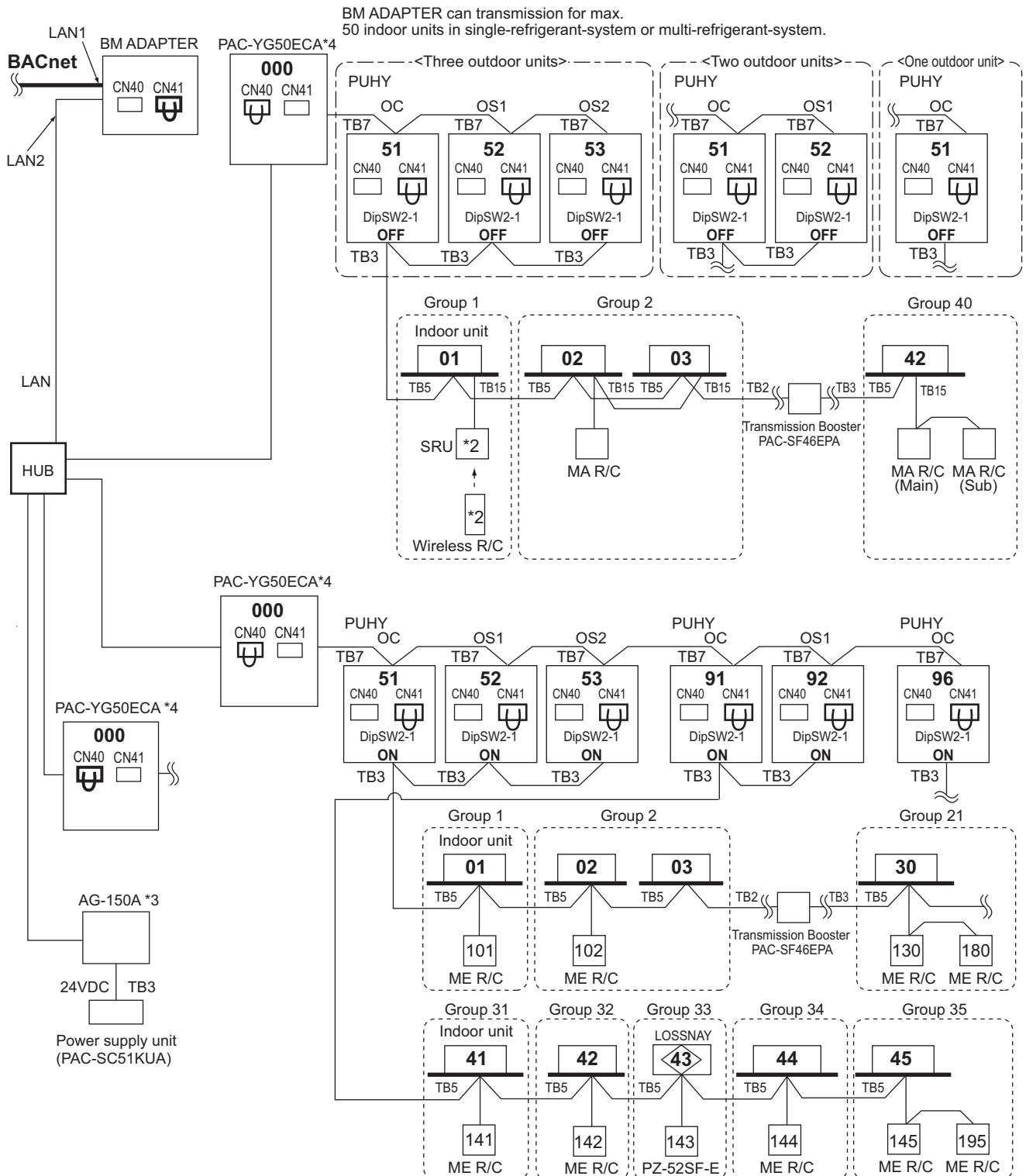


## 2. M-NET control

### 2-4-3. System examples

#### 2-4-3-13. BM ADAPTER+PAC-YG50ECA (Expansion controller)

BM ADAPTER(\*1) can transmission for max. 150 indoor units/via expansion controllers (PAC-YG50ECA).



#### NOTE

•It is not necessary to connect the M-NET transmission line to the TB3 on BM ADAPTER.

•Leave the power jumper of BM ADAPTER connected to CN41.

•For other equipments (Lighting, security, elevator etc.)

\*1 BM ADAPTER (Ver.2.00 or later) supports the expansion controller.

\*2 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*3 AG-150A (Ver.2.30 or later) supports the BM ADAPTER.

\*4 PAC-YG50ECA (Ver.1.30 or later) supports the BM ADAPTER.

## 3. Piping Design

### 3-1. Piping Design

#### 3-1-1. PUHY-RP200-350YJM-A

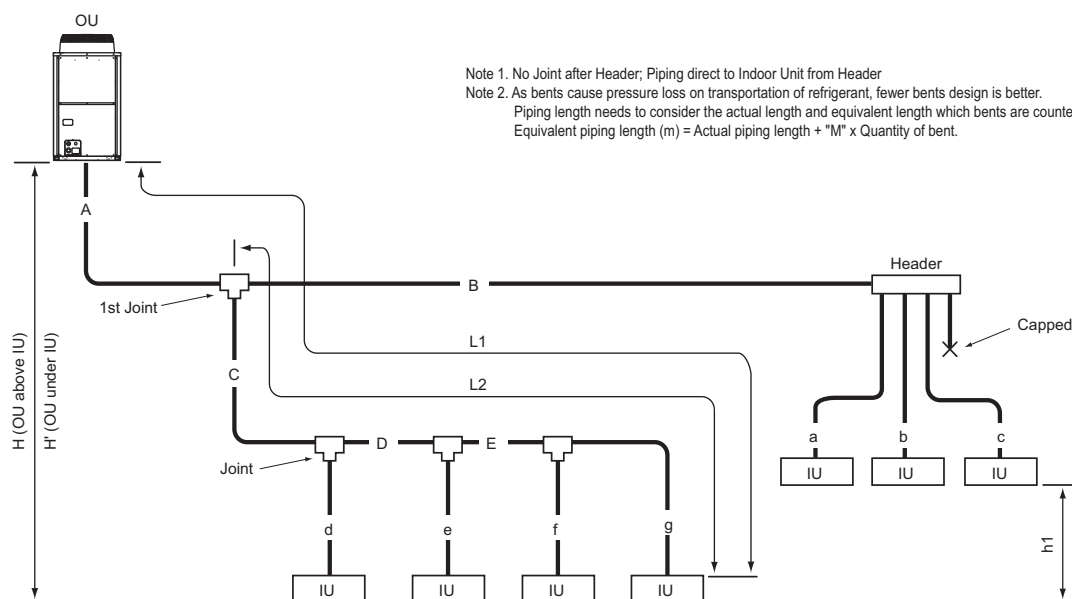


Fig. 3-1-1A Piping scheme

IU : Indoor unit, OU : Outdoor unit

Table 3-1-1-1. Piping length

| Item                                   | Piping in the figure    | Max. length | Max. equivalent length (m) |
|----------------------------------------|-------------------------|-------------|----------------------------|
| Total piping length                    | A+B+C+D+E+a+b+c+d+e+f+g | 300 *1      |                            |
| Farthest IU from OU (L1)               | A+C+D+E+g / A+B+c       | 120         | 150                        |
| Farthest IU from first joint (L2)      | C+D+E+g / B+c           | 40 *2       |                            |
| Height between OU and IU (OU above IU) | H                       | 50          |                            |
| Height between OU and IU (OU under IU) | H'                      | 40          |                            |
| Height between IU and IU               | h1                      | 15          |                            |

OU: Outdoor Unit, IU: Indoor Unit

\* 1 Do not exceed the amount of refrigerant to be charged written below.

PUHY-RP200-250YJM-A:  $0.39 \times L_0 + 0.29 \times L_1 + 0.2 \times L_2 + 0.12 \times L_3 + 0.06 \times L_4 + 0.024 \times L_5 < 18$   
 PUHY-RP300-350YJM-A:  $0.39 \times L_0 + 0.29 \times L_1 + 0.2 \times L_2 + 0.12 \times L_3 + 0.06 \times L_4 + 0.024 \times L_5 < 25$

L<sub>0</sub>: Total length of ø22.2 liquid pipe (m)

L<sub>1</sub>: Total length of ø19.05 liquid pipe (m)

L<sub>2</sub>: Total length of ø15.88 liquid pipe (m)

L<sub>3</sub>: Total length of ø12.7 liquid pipe (m)

L<sub>4</sub>: Total length of ø9.52 liquid pipe (m)

L<sub>5</sub>: Total length of ø6.35 liquid pipe (m)

\* 2 When creating 1 system out of the pipework of 2 systems, (L1-L2) must be 40 m or less.

L1: Distance between system 1's original outdoor unit and system 1's original farthest indoor unit.

L2: Distance between system 2's original outdoor unit and system 2's original farthest indoor unit.

L1 ≥ L2

Table 3-1-1-3. Piping "A" size selection rule

|                 | Pipe (Liquid) | Pipe (Gas) |
|-----------------|---------------|------------|
| Outdoor         |               |            |
| PUHY-RP200YJM-A | ø12.7         | ø28.58     |
| PUHY-RP250YJM-A | ø12.7         | ø28.58     |
| PUHY-RP300YJM-A | ø12.7         | ø28.58     |
| PUHY-RP350YJM-A | ø15.88        | ø34.93     |

Table 3-1-1-4. R410A piping "B", "C", "D", "E" size selection rule (mm [in.])

| Total down-stream Indoor capacity | Pipe (Liquid) | Pipe (Gas)      |
|-----------------------------------|---------------|-----------------|
| ~ P80                             | ø9.52 [3/8"]  | ø15.88 [5/8"]   |
| P81 ~ P160                        | ø12.7 [1/2"]  | ø19.05 [3/4"]   |
| P161 ~ P330                       | ø12.7 [1/2"]  | ø25.4 [1"]      |
| P331 ~ P630                       | ø15.88 [5/8"] | ø34.93 [1-3/8"] |
| P631 ~                            | ø19.05 [3/4"] | ø41.28 [1-5/8"] |

Table 3-1-1-5. Piping "a", "b", "c", "d", "e", "f", "g" size selection rule (mm [in.])

| Indoor Unit size   | Pipe (Liquid) | Pipe (Gas)      |
|--------------------|---------------|-----------------|
| P20, P25, P32, P40 | ø6.35 [1/4"]  | ø12.70 [1/2"]   |
| P50, P63, P71, P80 | ø9.52 [3/8"]  | ø15.88 [5/8"]   |
| P140               | ø9.52 [3/8"]  | ø19.05 [3/4"]   |
| P200               | ø12.7 [1/2"]  | ø25.4 [1"]      |
| P250               | ø12.7 [1/2"]  | ø28.58 [1-1/8"] |

Note 3. Indoor capacity is described as its model size.

For example, PEFY-P32VMM-E, its capacity is P32.

Note 4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.  
 For example, PEFY-P25VMM-E + PEFY-P32VMM-E: Total Indoor capacity = P25 + P32 = P57

Note 5. Piping size determined by the Total down-stream indoor capacity is NOT necessary to be bigger than the up-stream one.  
 i.e. A ≥ B; A ≥ C ≥ D

## 3. Piping Design

### 3-1-2. PUHY-RP400-550YSJM-A

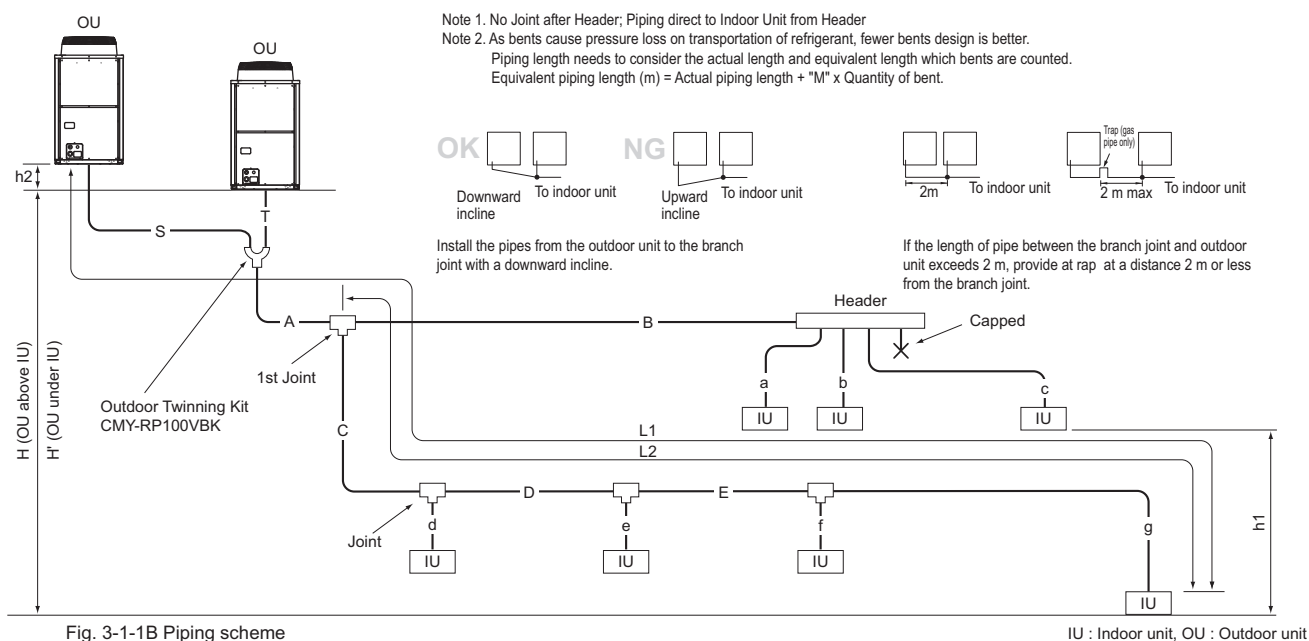


Table 3-1-2-1. Piping length

| Item                                   | Piping in the figure        | Max. length | Max. equivalent length |
|----------------------------------------|-----------------------------|-------------|------------------------|
| Total piping length                    | S+T+A+B+C+D+E+a+b+c+d+e+f+g | 300 *1      |                        |
| Distance between OU and OU             | S+T                         | 10          |                        |
| Height between OU and OU               | h2                          | 0.1         |                        |
| Farthest IU from OU (L1)               | S(T)+A+C+D+E+g / S(T)+A+B+c | 120         | 150                    |
| Farthest IU from the first Joint (L2)  | C+D+E+g / B+c               | 40 *2       |                        |
| Height between OU and IU (OU above IU) | H                           | 50          |                        |
| Height between OU and IU (OU under IU) | H'                          | 40          |                        |
| Height between IU and IU               | h1                          | 15          |                        |

OU: Outdoor Unit, IU: Indoor Unit

\* 1 Do not exceed the amount of refrigerant to be charged written below.

PUHY-RP400-550YSJM-A:  $0.39 \times L_0 + 0.29 \times L_1 + 0.2 \times L_2 + 0.12 \times L_3 + 0.06 \times L_4 + 0.024 \times L_5 < 25$

L<sub>0</sub>: Total length of ø22.2 liquid pipe (m)

L<sub>1</sub>: Total length of ø19.05 liquid pipe (m)

L<sub>2</sub>: Total length of ø15.88 liquid pipe (m)

L<sub>3</sub>: Total length of ø12.7 liquid pipe (m)

L<sub>4</sub>: Total length of ø9.52 liquid pipe (m)

L<sub>5</sub>: Total length of ø6.35 liquid pipe (m)

\* 2 When creating 1 system out of the pipework of 2 systems, (L1-L2) must be 40 m or less.

L1: Distance between system 1's original outdoor unit and system 1's original farthest indoor unit.

L2: Distance between system 2's original outdoor unit and system 2's original farthest indoor unit.

L1 ≥ L2

Table 3-1-2-3. Piping "A" size selection rule

| Outdoor          | Pipe (Liquid) | Pipe (Gas) |
|------------------|---------------|------------|
| PUHY-RP400YSJM-A | ø15.88        | ø34.93     |
| PUHY-RP450YSJM-A | ø15.88        | ø34.93     |
| PUHY-RP500YSJM-A | ø15.88        | ø34.93     |
| PUHY-RP550YSJM-A | ø15.88        | ø34.93     |

Table 3-1-2-4. Piping "B", "C", "D", "E" size selection rule

| Total down-stream Indoor capacity | Pipe (Liquid) | Pipe (Gas)      |
|-----------------------------------|---------------|-----------------|
| ~ P80                             | ø9.52 [3/8"]  | ø15.88 [5/8"]   |
| P81 ~ P160                        | ø12.7 [1/2"]  | ø19.05 [3/4"]   |
| P161 ~ P330                       | ø12.7 [1/2"]  | ø25.4 [1"]      |
| P331 ~ P630                       | ø15.88 [5/8"] | ø34.93 [1-3/8"] |
| P631 ~                            | ø19.05 [3/4"] | ø41.28 [1-5/8"] |

Table 3-1-2-5. Piping "a", "b", "c", "d", "e", "f", "g" size selection rule

| Indoor Unit size   | Pipe (Liquid) | Pipe (Gas)      |
|--------------------|---------------|-----------------|
| P20, P25, P32, P40 | ø6.35 [1/4"]  | ø12.70 [1/2"]   |
| P50, P63, P71, P80 | ø9.52 [3/8"]  | ø15.88 [5/8"]   |
| P140               | ø9.52 [3/8"]  | ø19.05 [3/4"]   |
| P200               | ø12.7 [1/2"]  | ø25.4 [1"]      |
| P250               | ø12.7 [1/2"]  | ø28.58 [1-1/8"] |

Note 3. Indoor capacity is described as its model size.

For example, PEFY-P32VMM-E, its capacity is P32.

Note 4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.

For example, PEFY-P25VMM-E + PEFY-P32VMM-E: Total Indoor capacity = P25 + P32 = P57

Note 5. Piping size determined by the Total down-stream indoor capacity is NOT necessary to be bigger than the up-stream one.

i.e. A ≥ B; A ≥ C ≥ D

## 3. Piping Design

### 3-1-3. PUHY-RP600-650YSJM-A

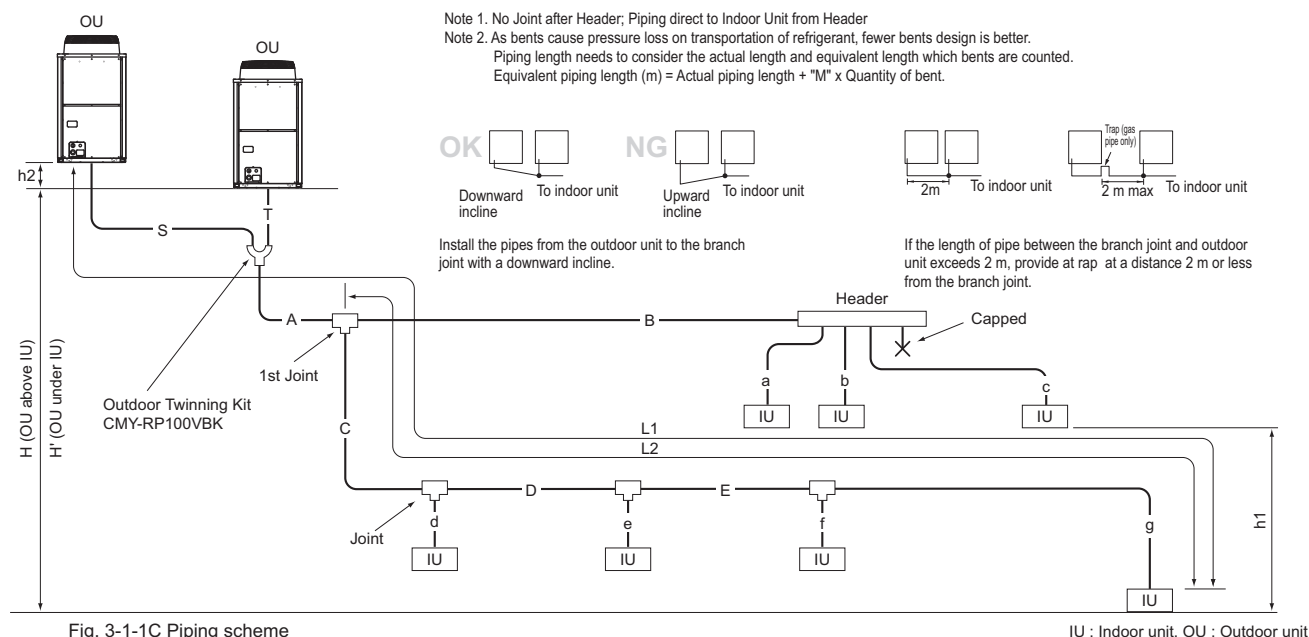


Fig. 3-1-1C Piping scheme

Table 3-1-3-1. Piping length

| Item                                   | Piping in the figure        | Max. length | Max. equivalent length |
|----------------------------------------|-----------------------------|-------------|------------------------|
| Total piping length                    | S+T+A+B+C+D+E+a+b+c+d+e+f+g | 250 *1      |                        |
| Distance between OU and OU             | S+T                         | 10          |                        |
| Height between OU and OU               | h2                          | 0.1         |                        |
| Farthest IU from OU (L1)               | S(T)+A+C+D+E+g / S(T)+A+B+c | 120         | 150                    |
| Farthest IU from the first Joint (L2)  | C+D+E+g / B+c               | 40 *2       |                        |
| Height between OU and IU (OU above IU) | H                           | 50          |                        |
| Height between OU and IU (OU under IU) | H'                          | 40          |                        |
| Height between IU and IU               | h1                          | 15          |                        |

OU: Outdoor Unit, IU: Indoor Unit

\* 1 Do not exceed the amount of refrigerant to be charged written below.

PUHY-RP600-650YSJM-A:  $0.39 \times L_0 + 0.29 \times L_1 + 0.2 \times L_2 + 0.12 \times L_3 + 0.06 \times L_4 + 0.024 \times L_5 < 25$

$L_0$ : Total length of  $\phi 22.2$  liquid pipe (m)

$L_1$ : Total length of  $\phi 19.05$  liquid pipe (m)

$L_2$ : Total length of  $\phi 15.88$  liquid pipe (m)

$L_3$ : Total length of  $\phi 12.7$  liquid pipe (m)

$L_4$ : Total length of  $\phi 9.52$  liquid pipe (m)

$L_5$ : Total length of  $\phi 6.35$  liquid pipe (m)

\* 2 When creating 1 system out of the pipework of 2 systems, (L1-L2) must be 40 m or less.

L1: Distance between system 1's original outdoor unit and system 1's original farthest indoor unit.

L2: Distance between system 2's original outdoor unit and system 2's original farthest indoor unit.

$L1 \geq L2$

Table 3-1-3-3. Piping "A" size selection rule

| Outdoor          | Pipe (Liquid) | Pipe (Gas)   |
|------------------|---------------|--------------|
| PUHY-RP600YSJM-A | $\phi 19.05$  | $\phi 34.93$ |
| PUHY-RP650YSJM-A | $\phi 19.05$  | $\phi 41.28$ |

Table 3-1-3-4. Piping "B", "C", "D", "E" size selection rule

| Total down-stream Indoor capacity | Pipe (Liquid)       | Pipe (Gas)            |
|-----------------------------------|---------------------|-----------------------|
| ~ P80                             | $\phi 9.52$ [3/8"]  | $\phi 15.88$ [5/8"]   |
| P81 ~ P160                        | $\phi 12.7$ [1/2"]  | $\phi 19.05$ [3/4"]   |
| P161 ~ P330                       | $\phi 12.7$ [1/2"]  | $\phi 25.4$ [1"]      |
| P331 ~ P630                       | $\phi 15.88$ [5/8"] | $\phi 34.93$ [1-3/8"] |
| P631 ~                            | $\phi 19.05$ [3/4"] | $\phi 41.28$ [1-5/8"] |

Table 3-1-3-5. Piping "a", "b", "c", "d", "e", "f", "g" size selection rule

| Indoor Unit size   | Pipe (Liquid)      | Pipe (Gas)            |
|--------------------|--------------------|-----------------------|
| P20, P25, P32, P40 | $\phi 6.35$ [1/4"] | $\phi 12.70$ [1/2"]   |
| P50, P63, P71, P80 | $\phi 9.52$ [3/8"] | $\phi 15.88$ [5/8"]   |
| P140               | $\phi 9.52$ [3/8"] | $\phi 19.05$ [3/4"]   |
| P200               | $\phi 12.7$ [1/2"] | $\phi 25.4$ [1"]      |
| P250               | $\phi 12.7$ [1/2"] | $\phi 28.58$ [1-1/8"] |

Note 3. Indoor capacity is described as its model size.

For example, PEFY-P32VMM-E, its capacity is P32.

Note 4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.  
 For example, PEFY-P25VMM-E + PEFY-P32VMM-E: Total Indoor capacity = P25 + P32 = P57

Note 5. Piping size determined by the Total down-stream indoor capacity is NOT necessary to be bigger than the up-stream one.  
 i.e.  $A \geq B$ ;  $A \geq C \geq D$

## 3. Piping Design

### 3-1-4. PUHY-RP700-900YSJM-A

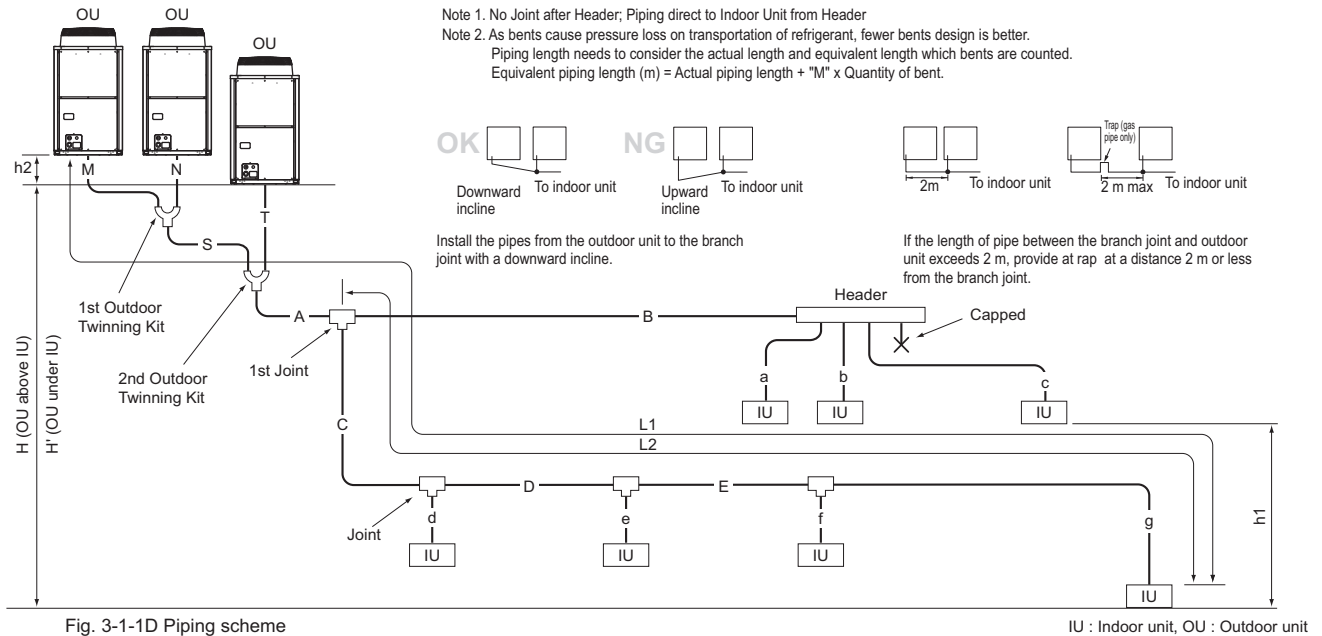


Fig. 3-1-1D Piping scheme

Table 3-1-4-1. Piping length

| Item                                   | Piping in the figure            | Max. length | Max. equivalent length |
|----------------------------------------|---------------------------------|-------------|------------------------|
| Total piping length                    | S+T+M+N+A+B+C+D+E+a+b+c+d+e+f+g | 250 *1      |                        |
| Distance between OU and OU             | S+T+M+N                         | 10          |                        |
| Height between OU and OU               | h2                              | 0.1         |                        |
| Farthest IU from OU (L1)               | S(T)+A+C+D+E+g / S(T)+A+B+c     | 120         | 150                    |
| Farthest IU from the first Joint (L2)  | C+D+E+g / B+c                   | 40 *2       |                        |
| Height between OU and IU (OU above IU) | H                               | 50          |                        |
| Height between OU and IU (OU under IU) | H'                              | 40          |                        |
| Height between IU and IU               | h1                              | 15          |                        |

OU: Outdoor Unit, IU: Indoor Unit

\* 1 Do not exceed the amount of refrigerant to be charged written below.

PUHY-RP700-900YSJM-A:  $0.39 \times L_0 + 0.29 \times L_1 + 0.2 \times L_2 + 0.12 \times L_3 + 0.06 \times L_4 + 0.024 \times L_5 < 25$

$L_0$ : Total length of  $\phi 22.2$  liquid pipe (m)

$L_1$ : Total length of  $\phi 19.05$  liquid pipe (m)

$L_2$ : Total length of  $\phi 15.88$  liquid pipe (m)

$L_3$ : Total length of  $\phi 12.7$  liquid pipe (m)

$L_4$ : Total length of  $\phi 9.52$  liquid pipe (m)

$L_5$ : Total length of  $\phi 6.35$  liquid pipe (m)

\* 2 When creating 1 system out of the pipework of 2 systems, (L1-L2) must be 40 m or less.

L1: Distance between system 1's original outdoor unit and system 1's original farthest indoor unit.

L2: Distance between system 2's original outdoor unit and system 2's original farthest indoor unit.

$L1 \geq L2$

Table 3-1-4-3. Piping "A" size selection rule

| Outdoor          | Pipe (Liquid) | Pipe (Gas)   |
|------------------|---------------|--------------|
| PUHY-RP700YSJM-A | $\phi 19.05$  | $\phi 41.28$ |
| PUHY-RP750YSJM-A | $\phi 19.05$  | $\phi 41.28$ |
| PUHY-RP800YSJM-A | $\phi 19.05$  | $\phi 41.28$ |
| PUHY-RP850YSJM-A | $\phi 19.05$  | $\phi 41.28$ |
| PUHY-RP900YSJM-A | $\phi 19.05$  | $\phi 41.28$ |

For Piping size "M", "N", "S", "T", please refer to specification of the Twinning kit CMY-RP200VBK at the Outdoor unit's external drawing.

Table 3-1-4-5. Piping "a", "b", "c", "d", "e", "f", "g" size selection rule

| Indoor Unit size   | Pipe (Liquid)      | Pipe (Gas)            |
|--------------------|--------------------|-----------------------|
| P20, P25, P32, P40 | $\phi 6.35$ [1/4"] | $\phi 12.70$ [1/2"]   |
| P50, P63, P71, P80 | $\phi 9.52$ [3/8"] | $\phi 15.88$ [5/8"]   |
| P140               | $\phi 9.52$ [3/8"] | $\phi 19.05$ [3/4"]   |
| P200               | $\phi 12.7$ [1/2"] | $\phi 25.4$ [1"]      |
| P250               | $\phi 12.7$ [1/2"] | $\phi 28.58$ [1-1/8"] |

Table 3-1-4-4. Piping "B", "C", "D", "E" size selection rule

| Total down-stream Indoor capacity | Pipe (Liquid)       | Pipe (Gas)            |
|-----------------------------------|---------------------|-----------------------|
| ~ P80                             | $\phi 9.52$ [3/8"]  | $\phi 15.88$ [5/8"]   |
| P81 ~ P160                        | $\phi 12.7$ [1/2"]  | $\phi 19.05$ [3/4"]   |
| P161 ~ P330                       | $\phi 12.7$ [1/2"]  | $\phi 25.4$ [1"]      |
| P331 ~ P630                       | $\phi 15.88$ [5/8"] | $\phi 34.93$ [1-3/8"] |
| P631 ~                            | $\phi 19.05$ [3/4"] | $\phi 41.28$ [1-5/8"] |

Note 3. Indoor capacity is described as its model size.

For example, PEFY-P32VMM-E, its capacity is P32.

Note 4. Total down-stream Indoor capacity is the summary of the model size of Indoors downstream.

For example, PEFY-P25VMM-E + PEFY-P32VMM-E: Total Indoor capacity = P25 + P32 = P57

Note 5. Piping size determined by the Total down-stream indoor capacity is NOT necessary to be bigger than the up-stream one.

i.e.  $A \geq B$ ;  $A \geq C \geq D$

## 3. Piping Design

### 3-1-5. Pipe diameter compatibility table

|   |                                                                   |
|---|-------------------------------------------------------------------|
| ○ | Standard                                                          |
| ● | Usable (Unit performance will be affected.)                       |
| ○ | Usable (Vertical separation between OU and IU to be 20 m or less) |
| ▲ | Usable (Piping length limitation will apply.)                     |
| △ | Usable (Refrigerant charge amount limit will apply.)              |
| × | Not use                                                           |

(1) Main pipe

| Outdoor model |        | 200              | 250              | 300              | 350              | 400              | 450              | 500              | 550              | 600              | 650              | 700              |
|---------------|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Liquid        | ø9.52  | (45m or shorter) | (30m or shorter) | (25m or shorter) | ×                | ×                | ×                | ×                | ×                | ×                | ×                | ×                |
|               | ø12.7  | ○                | ○                | ○                | (65m or shorter) | (50m or shorter) | (40m or shorter) | (35m or shorter) | (30m or shorter) | ×                | ×                | ×                |
|               | ø15.88 | △                | △                | △                | ○                | ○                | ○                | ○                | ○                | (70m or shorter) | (60m or shorter) | (55m or shorter) |
|               | ø19.05 | △                | △                | △                | △                | △                | △                | △                | △                | ○                | ○                | ○                |
|               | ø22.2  | △                | △                | △                | △                | △                | △                | △                | △                | △                | △                | △                |
| Gas           | ø15.88 | ×                | ×                | ×                | ×                | ×                | ×                | ×                | ×                | ×                | ×                | ×                |
|               | ø19.05 | ●                | ×                | ×                | ×                | ×                | ×                | ×                | ×                | ×                | ×                | ×                |
|               | ø22.2  | ●                | ●                | ●                | ×                | ×                | ×                | ×                | ×                | ×                | ×                | ×                |
|               | ø25.4  | ●                | ●                | ●                | ●                | ×                | ×                | ×                | ×                | ×                | ×                | ×                |
|               | ø28.58 | ○                | ○                | ○                | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ×                |
|               | ø34.93 | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|               | ø41.28 | ×                | ×                | ×                | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                |

| Outdoor model |        | 750              | 800              | 850              | 900              |
|---------------|--------|------------------|------------------|------------------|------------------|
| Liquid        | ø9.52  | ×                | ×                | ×                | ×                |
|               | ø12.7  | ×                | ×                | ×                | ×                |
|               | ø15.88 | (50m or shorter) | (45m or shorter) | (40m or shorter) | (35m or shorter) |
|               | ø19.05 | ○                | ○                | ○                | ○                |
|               | ø22.2  | △                | △                | △                | △                |
| Gas           | ø15.88 | ×                | ×                | ×                | ×                |
|               | ø19.05 | ×                | ×                | ×                | ×                |
|               | ø22.2  | ×                | ×                | ×                | ×                |
|               | ø25.4  | ×                | ×                | ×                | ×                |
|               | ø28.58 | ×                | ×                | ×                | ×                |
|               | ø34.93 | ●                | ●                | ×                | ×                |
|               | ø41.28 | ○                | ○                | ○                | ○                |

(2) Indoor pipe

| Indoor model |        | 15 | 20 | 25 | 32 | 40 | 50               | 63               | 71 | 80 | 100 | 125 |
|--------------|--------|----|----|----|----|----|------------------|------------------|----|----|-----|-----|
| Liquid       | ø6.35  | ○  | ○  | ○  | ○  | ○  | (30m or shorter) | (20m or shorter) | ×  | ×  | ×   | ×   |
|              | ø9.52  | △  | △  | △  | △  | △  | ○                | ○                | ○  | ○  | ○   | ○   |
|              | ø12.7  | △  | △  | △  | △  | △  | △                | △                | △  | △  | △   | △   |
|              | ø15.88 | △  | △  | △  | △  | △  | △                | △                | △  | △  | △   | △   |
|              | ø22.2  | △  | △  | △  | △  | △  | △                | △                | △  | △  | △   | △   |
| Gas          | ø12.7  | ○  | ○  | ○  | ○  | ○  | ●                | ×                | ×  | ×  | ×   | ×   |
|              | ø15.88 | ○  | ○  | ○  | ○  | ○  | ○                | ○                | ○  | ○  | ●   | ●   |
|              | ø19.05 | ×  | ×  | ×  | ×  | ×  | ○                | ○                | ○  | ○  | ○   | ○   |
|              | ø22.2  | ×  | ×  | ×  | ×  | ×  | ×                | ×                | ×  | ×  | ○   | ○   |
|              | ø25.4  | ×  | ×  | ×  | ×  | ×  | ×                | ×                | ×  | ×  | ×   | ×   |
|              | ø28.58 | ×  | ×  | ×  | ×  | ×  | ×                | ×                | ×  | ×  | ×   | ×   |

| Indoor model |        | 140 | 200              | 250              |
|--------------|--------|-----|------------------|------------------|
| Liquid       | ø6.35  | ×   | ×                | ×                |
|              | ø9.52  | ○   | (25m or shorter) | (15m or shorter) |
|              | ø12.7  | △   | ○                | ○                |
|              | ø15.88 | △   | △                | △                |
|              | ø22.2  | △   | △                | △                |
| Gas          | ø12.7  | ×   | ×                | ×                |
|              | ø15.88 | ●   | ×                | ×                |
|              | ø19.05 | ○   | ●                | ×                |
|              | ø22.2  | ○   | ●                | ●                |
|              | ø25.4  | ×   | ○                | ●                |
|              | ø28.58 | ×   | ○                | ○                |

(3) Joint pipe

| Indoor model |        | -80 | -140             | -160             | -200             | -300             | -330 | -400             | -630 | -650             | -800 | 801- |
|--------------|--------|-----|------------------|------------------|------------------|------------------|------|------------------|------|------------------|------|------|
| Liquid       | ø9.52  | ○   | (15m or shorter) | (15m or shorter) | (10m or shorter) | (10m or shorter) | ×    | ×                | ×    | ×                | ×    | ×    |
|              | ø12.7  | △   | ○                | ○                | ○                | ○                | ○    | (30m or shorter) | ×    | ×                | ×    | ×    |
|              | ø15.88 | △   | △                | △                | △                | △                | △    | ○                | ○    | (30m or shorter) | ×    | ×    |
|              | ø19.05 | △   | △                | △                | △                | △                | △    | △                | △    | ○                | ○    | ○    |
|              | ø22.2  | △   | △                | △                | △                | △                | △    | △                | △    | △                | △    | △    |
| Gas          | ø15.88 | ○   | ●                | ×                | ×                | ×                | ×    | ×                | ×    | ×                | ×    | ×    |
|              | ø19.05 | ○   | ○                | ○                | ●                | ×                | ×    | ×                | ×    | ×                | ×    | ×    |
|              | ø22.2  | ×   | ○                | ○                | ●                | ●                | ×    | ×                | ×    | ×                | ×    | ×    |
|              | ø25.4  | ×   | ×                | ×                | ○                | ○                | ○    | ×                | ×    | ×                | ×    | ×    |
|              | ø28.58 | ×   | ×                | ×                | ○                | ○                | ○    | ●                | ●    | ●                | ×    | ×    |
|              | ø34.93 | ×   | ×                | ×                | ×                | ×                | ×    | ○                | ○    | ○                | ●    | ×    |
|              | ø41.28 | ×   | ×                | ×                | ×                | ×                | ×    | ○                | ○    | ○                | ○    | ○    |

Note

1) The △ in the table indicates that the existing piping system can be reused if the total amount of refrigerant charge in the existing system is less than the specified amount calculated by using the following formulas:

$$\text{PUHY-RP200-250YJM-A} : 0.39 \times L0 + 0.29 \times L1 + 0.2 \times L2 + 0.12 \times L3 + 0.06 \times L4 < 18$$

$$\text{PUHY-RP300-900YJM-A} : 0.39 \times L0 + 0.29 \times L1 + 0.2 \times L2 + 0.12 \times L3 + 0.06 \times L4 < 25$$

L0 : Total length of ø22.2 liquid pipe(m)

L1 : Total length of ø19.05 liquid pipe(m)

L2 : Total length of ø15.88 liquid pipe(m)

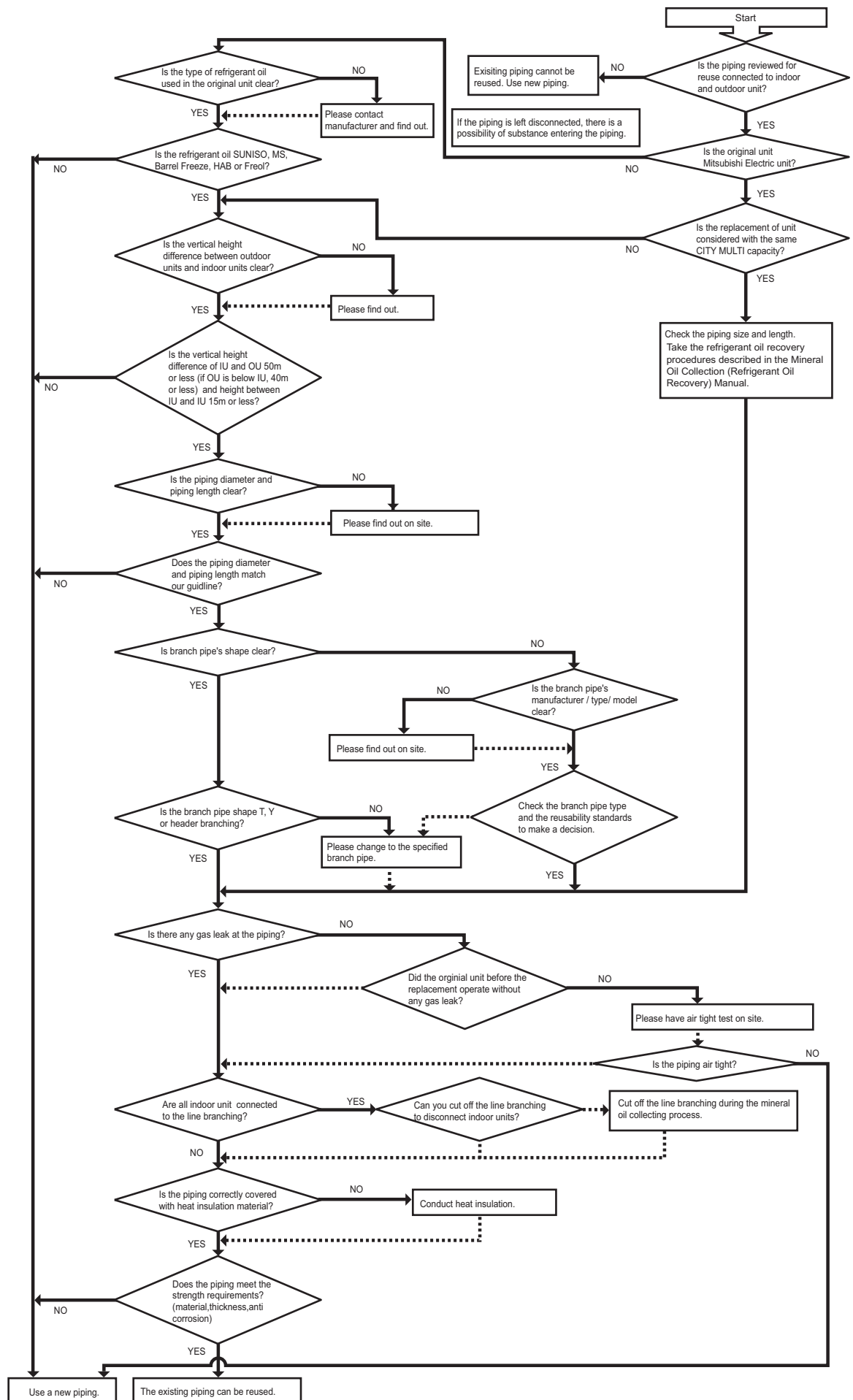
L3 : Total length of ø12.7 liquid pipe(m)

L4 : Total length of ø9.52 liquid pipe(m)

L5 : Total length of ø6.35 liquid pipe(m)

### 3. Piping Design

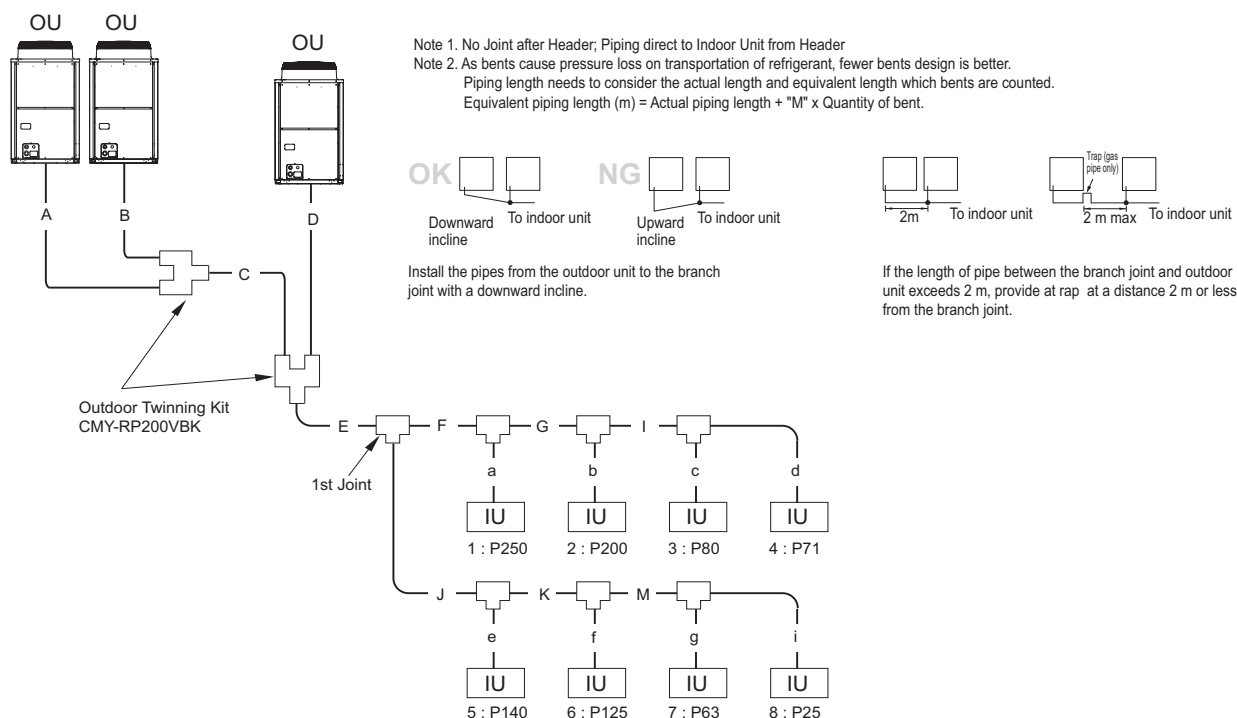
#### 3-1-6. Flow chart to check if the existing piping can be reused



## 3. Piping Design

### 3-1-7. Refrigerant charging calculation

#### Sample connection (with 8 indoor units)



#### Amount of refrigerant to be charged

Refrigerant for extended pipes (field piping) is not factory-charged to the outdoor unit. Add an appropriate amount of refrigerant for each pipe on site.

Record the size of each liquid pipe and the amount of refrigerant that was charged on the outdoor unit for future reference.

#### Calculating the amount of refrigerant to be charged

- The amount of refrigerant to be charged is calculated with the size of the on-site-installed liquid pipes and their length.
- Calculate the amount of refrigerant to be charged according to the formula below.
- Round up the calculation result to the nearest 0.1 kg. (i.e., 16.08 kg = 16.1 kg)

#### <Amount of refrigerant to be charged>

#### Calculating the amount of refrigerant to be charged

| Total length of $\phi 19.05$ liquid pipe x 0.29 | Total length of $\phi 15.88$ liquid pipe x 0.2 | Total length of $\phi 12.7$ liquid pipe x 0.12 | Total length of $\phi 9.52$ liquid pipe x 0.06 | Total length of $\phi 6.35$ liquid pipe x 0.024 |
|-------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------|
| (m) x 0.29 (kg/m)                               | (m) x 0.2 (kg/m)                               | (m) x 0.12 (kg/m)                              | (m) x 0.06 (kg/m)                              | (m) x 0.024 (kg/m)                              |

| Total capacity of connected indoor units | Charged amount |
|------------------------------------------|----------------|
| ~80                                      | 2.0 kg         |
| 81~160                                   | 2.5 kg         |
| 161~330                                  | 3.0 kg         |
| 331~390                                  | 3.5 kg         |
| 391~480                                  | 4.5 kg         |
| 481~630                                  | 5.0 kg         |
| 631~710                                  | 6.0 kg         |
| 711~800                                  | 8.0 kg         |
| 801~890                                  | 9.0 kg         |
| 891~1070                                 | 10.0 kg        |
| 1071~1170                                | 12.0 kg        |

#### Amount of factory-charged refrigerant

| Outdoor unit model | Charged amount |
|--------------------|----------------|
| RP200              | 6.5kg          |
| RP250              | 9.0kg          |
| RP300              |                |
| RP350              |                |

#### Sample calculation

| Outdoor              | Indoor                       |
|----------------------|------------------------------|
| A: $\phi 9.52$ 3 m   | 1: P200 a : $\phi 12.7$ 15 m |
| B: $\phi 12.70$ 2 m  | 2: P200 b : $\phi 12.7$ 15 m |
| C: $\phi 19.05$ 2 m  | 3: P80 c : $\phi 9.52$ 5 m   |
| D: $\phi 15.88$ 1 m  | 4: P71 d : $\phi 9.52$ 5 m   |
| E: $\phi 19.05$ 10 m | 5: P125 e : $\phi 9.52$ 5 m  |
| F: $\phi 15.88$ 10 m | 6: P125 f : $\phi 9.52$ 5 m  |
| G: $\phi 15.88$ 5 m  | 7: P63 g : $\phi 9.52$ 5 m   |
| H: $\phi 12.7$ 5 m   | 8: P25 i : $\phi 6.35$ 5 m   |
| J: $\phi 15.88$ 20 m |                              |
| K: $\phi 12.7$ 5 m   |                              |
| M: $\phi 12.7$ 5 m   |                              |

Total length for each pipe size:  
 $\phi 19.05$   
 $\phi 15.88$   
 $\phi 12.70$   
 $\phi 9.52$   
 $\phi 6.35$

This yields the following result:

C + E = 12  
 D + F + G + J = 1 + 10 + 5 + 20 = 36 m  
 B + I + K + M + a + b = 2 + 5 + 5 + 5 + 15 + 15 = 47 m  
 A + c + d + e + f + g = 3 + 5 + 5 + 5 + 5 + 5 = 23 m  
 i = 5 m  
 = 0.29 x 12 + 0.2 x 36 + 0.12 x 47 + 0.06 x 23 + 0.024 x 5 + 9  
 = 26.82 kg  
 ≈ 26.9 kg

## 4. Outdoor Installation

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### 4-1. Requirement on installation site

1. No direct thermal radiation to the unit.
2. No possibility of annoying the neighbors by the sound of the unit.  
Valves and refrigerant flow on the outdoor unit may generate noise.
3. Avoid the sites where strong winds blow.
4. With strength to bear the weight of the unit.
5. Drain flow from the unit is cared at heating mode.
6. Enough space for installation and service as shown at 4-2.
7. Avoid the sites where acidic solutions or chemical sprays (sulfur series) are used frequently.
8. The unit should be secure from combustible gas, oil, steam, chemical gas like acidic solution, sulfur gas and so on.

## 4. Outdoor Installation

### 4-2. Spacing

#### In case of single installation

- Secure enough space around the unit as shown in the figure.

<A> : Top view

Ⓐ : Front

Ⓒ : Back

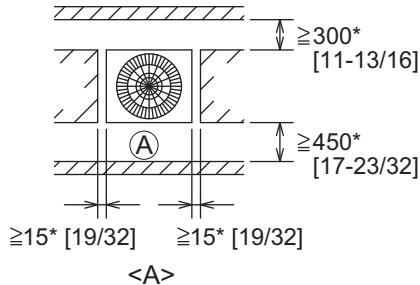
<B> : Side view

Ⓑ : Unit height

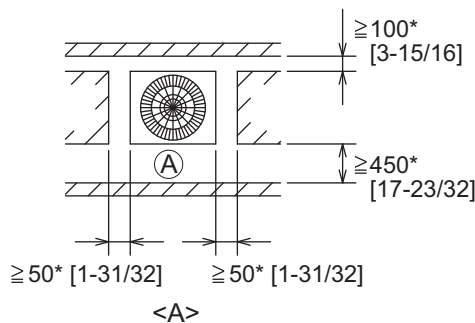
Ⓓ : Air outlet guide (Procured at the site)

<C> : When there is little space up to an obstruction

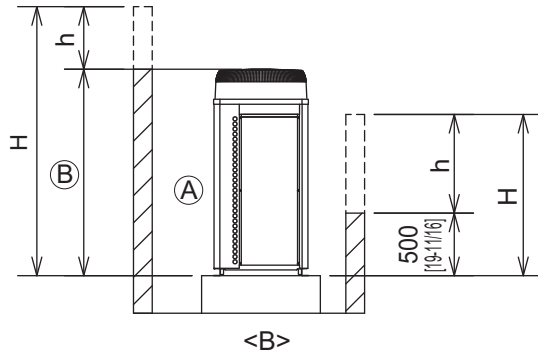
#### (1) If the distance is 300 mm [11-13/16 in.] or more between the rear side and the wall



#### (2) If the distance is 100 mm [3-15/16 in.] or more between the rear side and the wall



#### (3) If the wall height (H) of the front, rear or side exceeds the wall height restriction



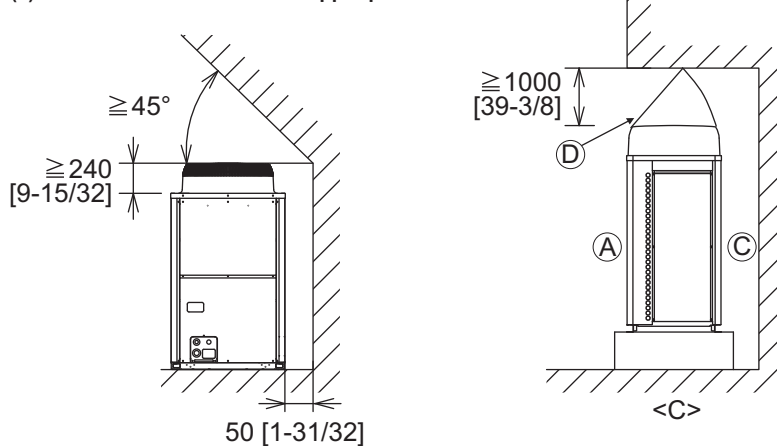
- When the height of the walls on the front, back or on the sides <H> exceeds the wall height limit as defined below, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.

<Wall height limit> Front: Up to the unit height

Back: Up to 500mm [19-11/16 in.] from the unit bottom

Side: Up to the unit height

#### (4) If there are obstacles at the upper part of the unit



(Unit : mm [in.])

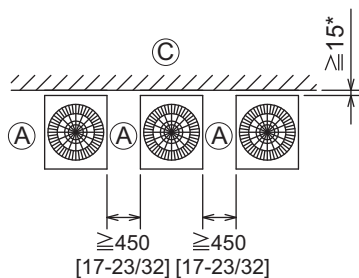
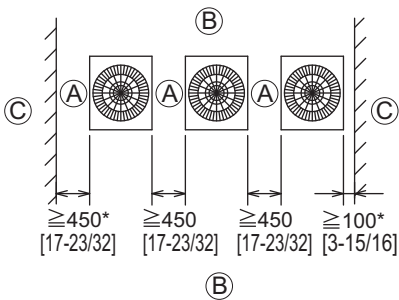
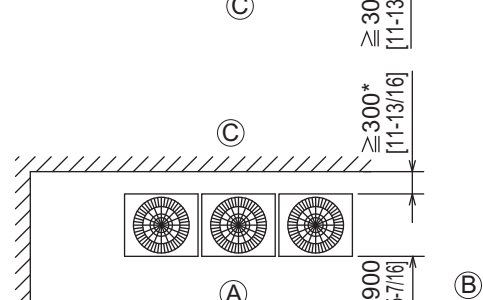
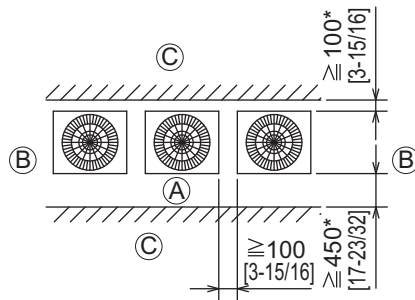
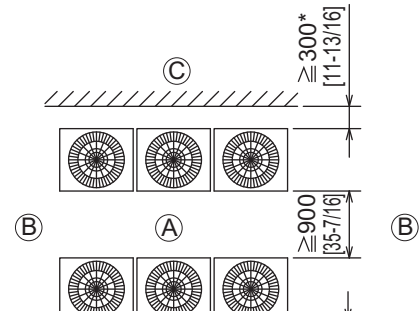
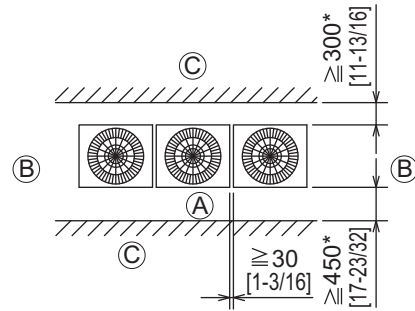
## 4. Outdoor Installation

### In case of collective installation and continuous installation

(A) : Front (C) : Wall height (H)

(B) : Must be open

- When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and passageways between groups of units as shown in the figures.
- At least two sides must be left open.
- As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.
- If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/passage space for each six units.



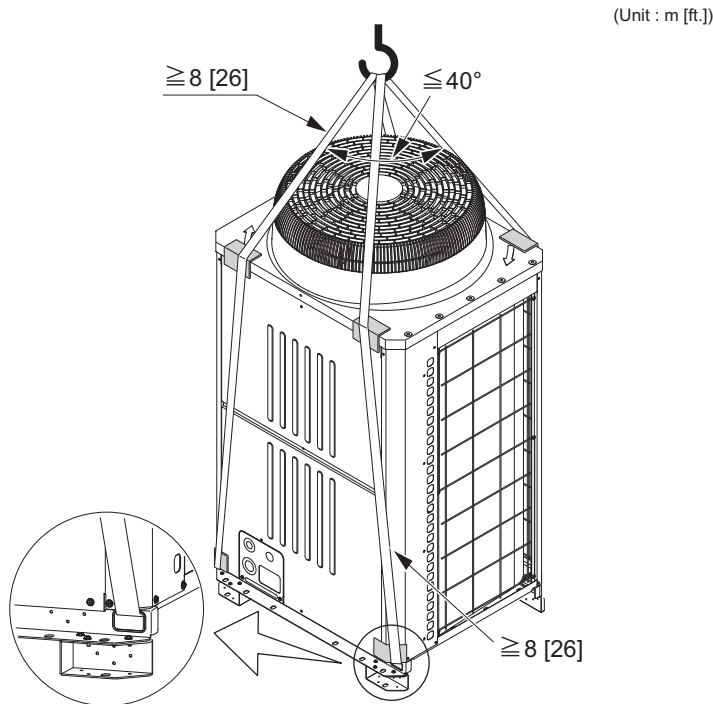
(Unit : mm [in.])

## 4. Outdoor Installation

### 4-3. Piping direction

#### 4-3-1. Lifting method

- When lifting the unit with ropes, run the ropes under the unit and use the lifting hole.
- Support the unit at four points with two ropes, and avoid giving mechanical shock.
- Suspension rope angle must be  $40^\circ$  or less, so as to avoid compressing fan guard.
- Use two ropes, each at least 8m [26 ft.] in length
- Use ropes strong enough to support the weight of the unit.
- Always suspend the unit from four corners. (It is dangerous to suspend a unit from two corners and must not be attempted.)
- Use protective pads to keep the ropes from scratching the panels on the unit.



#### CAUTION

**Exercise caution when transporting products.**

- Products weighing more than 20 kg [45 LBS] should not be carried alone.
- Do not carry the product by the PP bands.
- To avoid the risk of injury, do not touch the heat exchanger fins.
- Plastic bags may pose a risk of choking hazard to children. Tear plastic bags into pieces before disposing of them.
- When lifting and transporting outdoor units with ropes, run the ropes through lifting hole at the unit base. Securely fix the unit so that the ropes will not slide off, and always lift the unit at four points to prevent the unit from falling.

## 4. Outdoor Installation

### 4-3-2. Installation

- Secure the unit with anchor bolts as shown in the figure below so that the unit will not topple over with strong wind or during an earthquake.
- Install the unit on a durable base made of such materials as concrete or angle steel.
- Take appropriate anti-vibration measures (e.g., vibration damper pad, vibration isolation base) to keep vibrations and noise from being transmitted from the unit through walls and floors.
- When using a rubber cushion, install it so that the cushion covers the entire width of the unit leg.
- Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure below is securely supported.
- Install the anchor bolt in such a way that the top end of the anchor bolt do not stick out more than 30 mm [1-3/16 in.].
- This unit is not designed to be anchored with post-installation-type anchor bolts, although by adding fixing brackets anchoring with such type of anchor bolts becomes possible.



#### WARNING

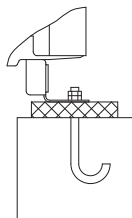
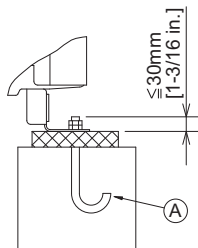
Properly install the unit on a surface that can withstand the weight of the unit. Unit installed on an unstable surface may fall and cause injury.



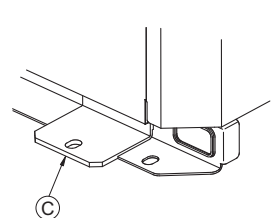
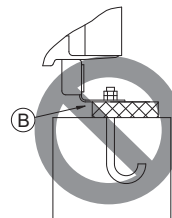
#### WARNING

Take appropriate safety measures against strong winds and earthquakes to prevent the unit from falling.

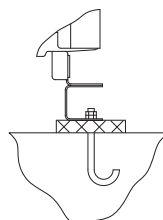
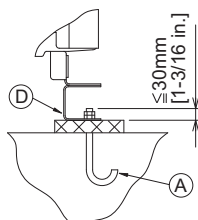
- (A) : M10 anchor bolt procured at the site.  
 (B) : Corner is not seated.  
 (C) : Fixing bracket for hole-in anchor bolt (3 locations to fix with screws).  
 (D) : Detachable leg  
 <Without detachable leg>



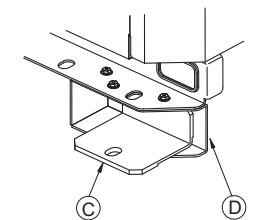
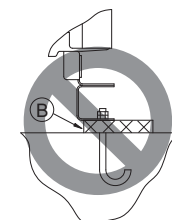
Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure is securely supported. The brackets may bend if they are not securely supported.



<With detachable leg>



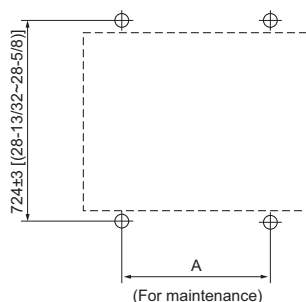
Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure is securely supported. The brackets may bend if they are not securely supported.



Take into consideration the durability of the base, water drainage route (Drain water is discharged from outdoor units during operation.), piping route, and wiring route when performing foundation work.

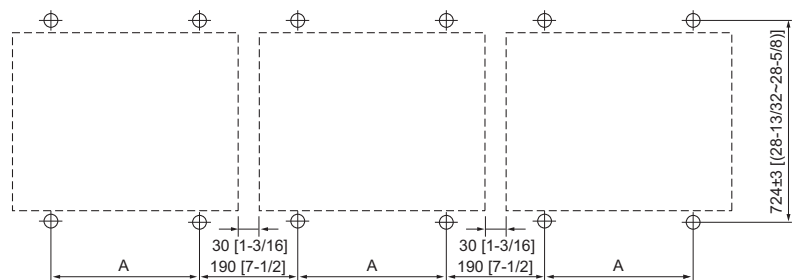
### 4-3-3. Anchor bolt positions

#### • Individual installation



#### • Collective installation

(Unit : mm [in.])



|      |                               |
|------|-------------------------------|
| PUHY | RP200-RP350                   |
| A    | 760±2 [29-15/16(29-27/32~30)] |

## 4. Outdoor Installation

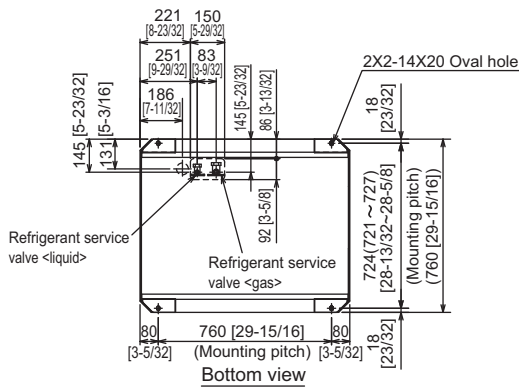
### 4-3-4. Installation

When the pipes and/or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.

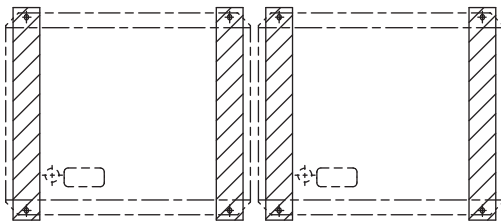
When the pipes are routed at the bottom of the unit, the base should be at least 100 mm [3-15/16 in.] in height.

#### · RP200-RP350

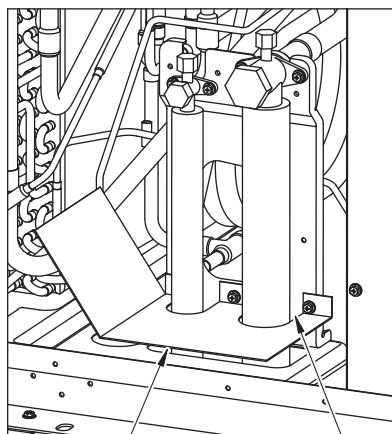
(Unit : mm [in.])



Installation base perpendicular to the unit's front panel



### 4-3-5. Refrigerant pipe routing



Filler plate  
(not supplied)

Fill the gap at the site

The gaps around the edges of through holes for pipes and wires on the unit allow water or mice to enter the unit and damage its parts. Close these gaps with filler plates.

This unit allows two types of pipe routing:

- Bottom piping
- Front piping



#### CAUTION

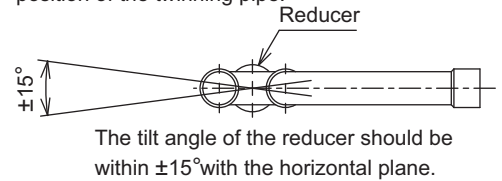
To prevent small animals, water, and snow from entering the unit and damage its parts, close the gap around the edges of through holes for pipes and wires with filler plates.

## 4. Outdoor Installation

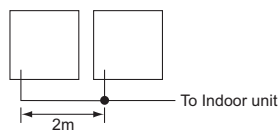
### 4-3-6. Twinning on the outdoor unit side

- The tilt angle of the twinning pipe  
The tilt angle of the twinning pipe must be within  $\pm 15^\circ$  with the horizontal plane.  
Tilting the twinning pipe more than specified will cause damage to the unit.
- The length of the straight part of the pipe before the branching  
For the twinning kit, always use the accessory piping parts.  
The length of the straight part of pipe connected in front of the twinning pipe must be 500 mm [19 in.] or longer.  
(Connect the field piping so that the length of the straight part of pipe connected in front of the twinning pipe can be 500 mm [19 in.] or longer.)  
If the length is less than 500 mm [19 in.], it will cause damage to the unit.
- The piping connection  
When connecting the twinning kit to the outdoor unit, note the following:  
If the length of piping from the twinning kit to the outdoor unit is more than 2 m [6 ft.], install a trap within 2 m [6 ft.] from the outdoor unit. The height of the trap must be 200 mm [7 in.] or higher.

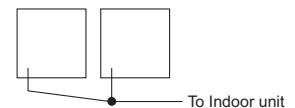
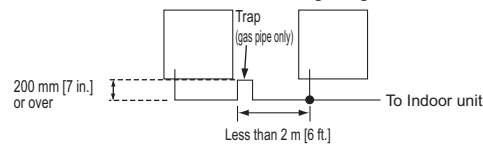
Note: See the following drawing for the fitting position of the twinning pipe.



<2 m [6 ft.] or less>

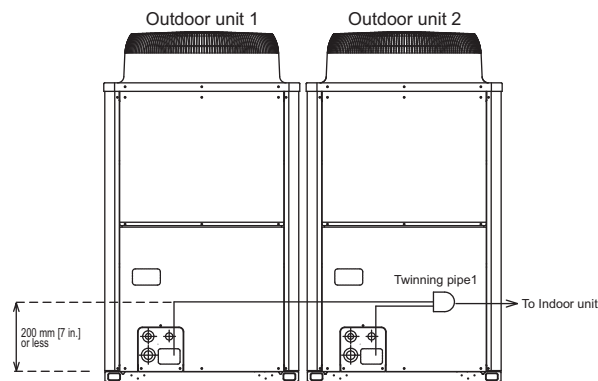


<More than 2 m [6 ft.]>

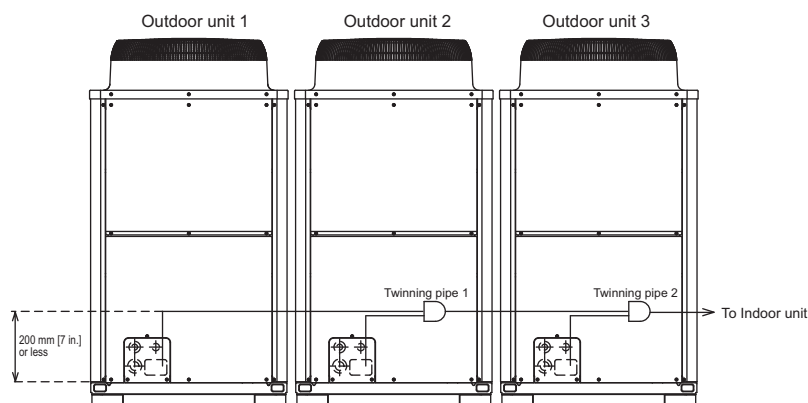


When installing the twinning kit in a higher position than the outdoor unit base, make sure that the twinning kit is installed in a position lower than 200 mm [7 in.] from the outdoor unit base.

<PUHY-RP500YSJM-A>



<PUHY-RP900YSJM-A>

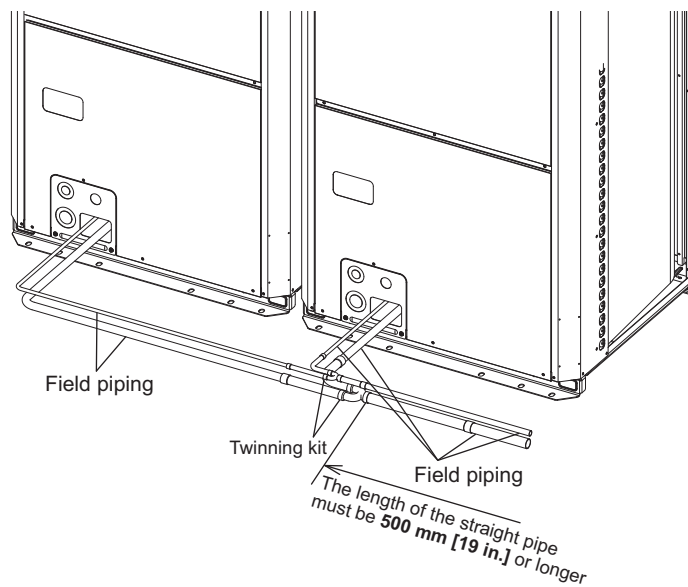


## 4. Outdoor Installation

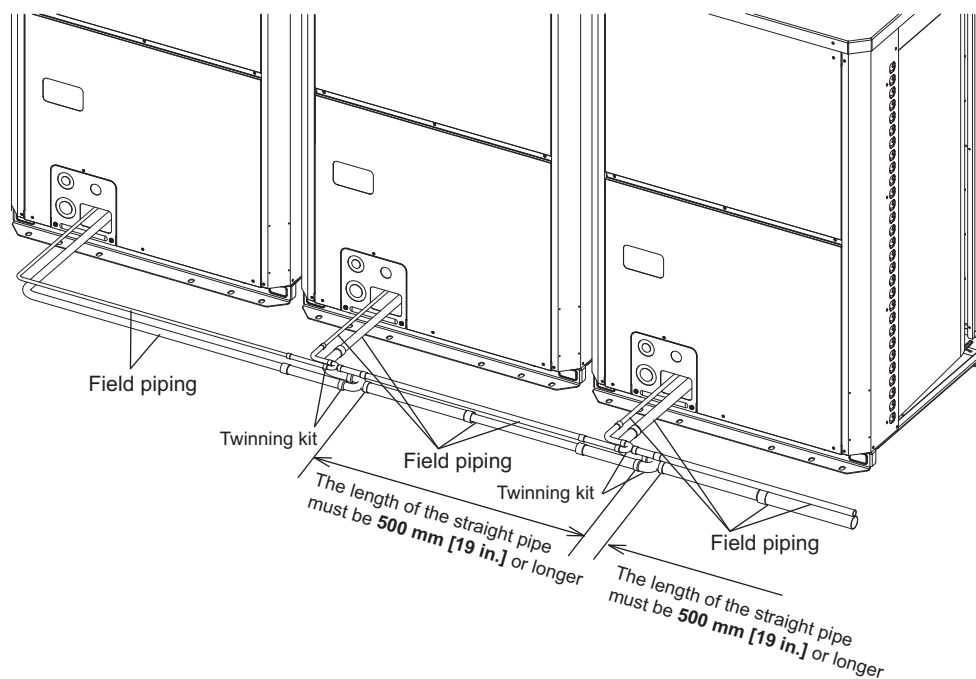
### 4-3-7. Twinning on the outdoor unit side

See the following drawing for connecting the pipes between the outdoor units.

<PUHY-RP500YSJM-A>



<PUHY-RP900YSJM-A>



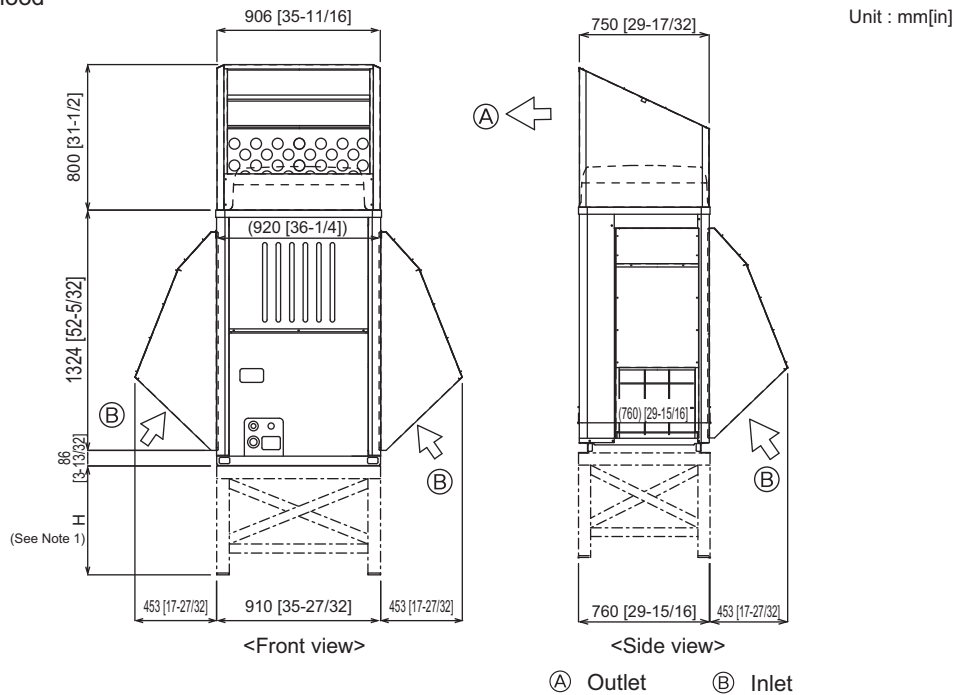
#### CAUTION

The length of the straight pipe must be 500mm[19 in.] or longer.  
If not, it may cause improper operation.

## 4. Outdoor Installation

### 4-4. Weather countermeasure

#### • Snow hood

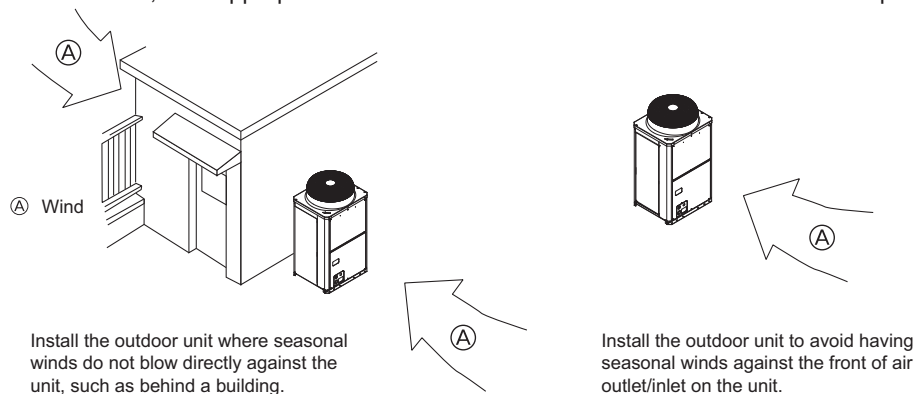


#### Note:

- Height of frame base for snow damage prevention (H) shall be twice as high as expected snowfall. Width of frame base shall not exceed that of the unit. The frame base shall be made of angle steel, etc., and designed so that snow and wind slip through the structure. (If frame base is too wide, snow will be accumulated on it.)
- Install unit so that wind will not directly lash against openings of inlet and outlet ducts.
- Build frame base at customer referring to this figure.  
Material: Galvanized steel plate 1.2T [1/16 in T]  
Painting: Overall painting with polyester powder  
Color: Munsell 5Y8/1 (same as that of unit)
- When the unit is used in a cold region and the heating operation is continuously performed for a long time when the outside air temperature is below freezing, install a heater to the unit base or take other appropriate measures to prevent water from freezing on the base.

#### Countermeasure to wind

Referring to the figure shown below, take appropriate measures which will suit the actual situation of the place for installation.



## 4. Outdoor Installation

---

### 4-5. Caution on selecting outdoor units

Consult your dealer when the following issues on Y system are the key concern.

- Warm air may flow out from the indoor unit during heating Thermo-OFF.
- Refrigerant flow sound may occur in the rooms with low background noise such as hotel rooms, hospital rooms, bedrooms, or conference rooms.

To avoid the above issues on Y system, changing board settings on the indoor and outdoor units is required.

Ask AC&R Works for details.

## 5. Caution for refrigerant leakage

The installer and/or air conditioning system specialist shall secure safety against refrigerant leakage according to local regulations or standards. The following standard may be applicable if no local regulation or standard is available.

### 5-1. Refrigerant property

R410A refrigerant is harmless and incombustible. The R410A is heavier than the indoor air in density. Leakage of the refrigerant in a room has possibility to lead to a hypoxia situation. Therefore, the Critical concentration specified below shall not be exceeded even if the leakage happens.

#### • Critical concentration

Critical concentration hereby is the refrigerant concentration in which no human body would be hurt if immediate measures can be taken when refrigerant leakage happens.

**Critical concentration of R410A: 0.30kg/m<sup>3</sup>**

**(The weight of refrigeration gas per 1 m<sup>3</sup> air conditioning space.);**

\* The Critical concentration is subject to ISO5149, EN378-1.

For the CITY MULTI system, the concentration of refrigerant leaked should not have a chance to exceed the Critical concentration in any situation.

### 5-2. Confirm the Critical concentration and take countermeasure

The maximum refrigerant leakage concentration (Rmax) is defined as the result of the possible maximum refrigerant weight (Wmax) leaked into a room divided by its room capacity (V). It is referable to Fig.5-1. The refrigerant of Outdoor unit here includes its original charge and additional charge at the site.

The additional charge is calculated according to "3-3 .Refrigerant charging calculation" and shall not be over charged at the site.

Procedure 5-2-1~3 tells how to confirm maximum refrigerant leakage concentration (Rmax) and how to take countermeasures against a possible leakage.

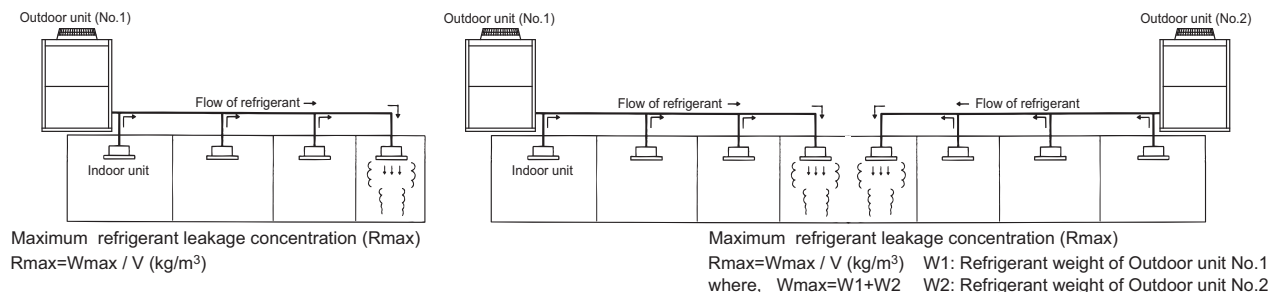


Fig. 5-1 The maximum refrigerant leakage concentration

#### 5-2-1. Find the room capacity (V),

If a room having total opening area more than 0.15% of the floor area at a low position with another room/space, the two rooms/space are considered as one. The total space shall be added up.

#### 5-2-2. Find the possible maximum leakage (Wmax) in the room. If a room has Indoor unit(s) from more than 1 Outdoor unit, add up the refrigerant of the Outdoor units.

#### 5-2-3. Divide (Wmax) by (V) to get the maximum refrigerant leakage concentration (Rmax).

#### 5-2-4. Find if there is any room in which the maximum refrigerant leakage concentration (Rmax) is over 0.30kg/m<sup>3</sup>.

If no, then the CITY MULTI is safe against refrigerant leakage.

If yes, following countermeasure is recommended to do at site.

Countermeasure 1: Let-out (making V bigger)

Design an opening of more than 0.15% of the floor area at a low position of the wall to let out the refrigerant whenever leaked.

e.g. make the upper and lower seams of door big enough.

Countermeasure 2: Smaller total charge (making Wmax smaller)

e.g. Avoid connecting more than 1 Outdoor unit to one room.

e.g. Using smaller model size but more Outdoor units.

e.g. Shorten the refrigerant piping as much as possible.

Countermeasure 3: Fresh air in from the ceiling (Ventilation)

As the density of the refrigerant is bigger than that of the air. Fresh air supply from the ceiling is better than air exhausting from the ceiling.

Fresh air supply solution refers to Fig.5-2~4.

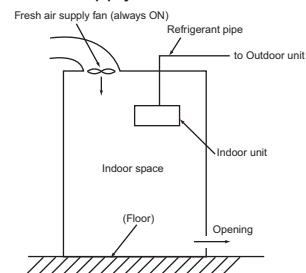


Fig.5-2. Fresh air supply always ON

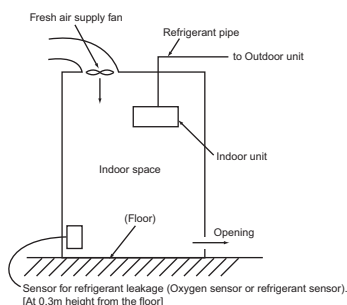


Fig.5-3. Fresh air supply upon sensor action

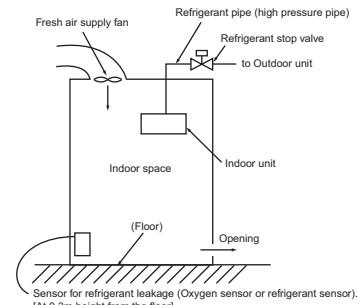


Fig.5-4. Fresh air supply and refrigerant shut-off upon sensor action

Note 1. Countermeasure 3 should be done in a proper way in which the fresh air supply shall be on whenever the leakage happens.

Note 2. In principle, MITSUBISHI ELECTRIC requires proper piping design, installation and air-tight testing after installation to avoid leakage happening.

In the area should earthquake happen, anti-vibration measures should be fully considered.

The piping should consider the extension due to the temperature variation.



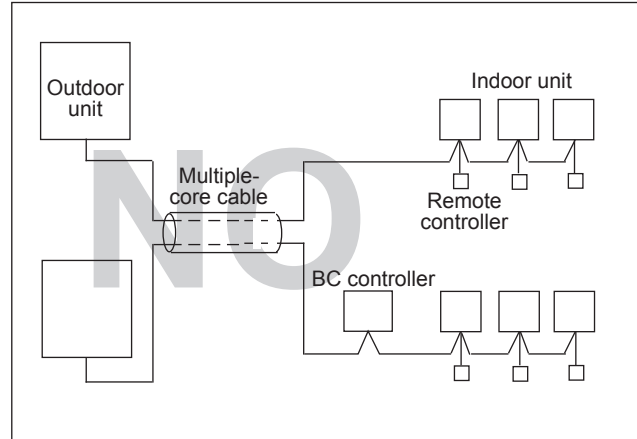
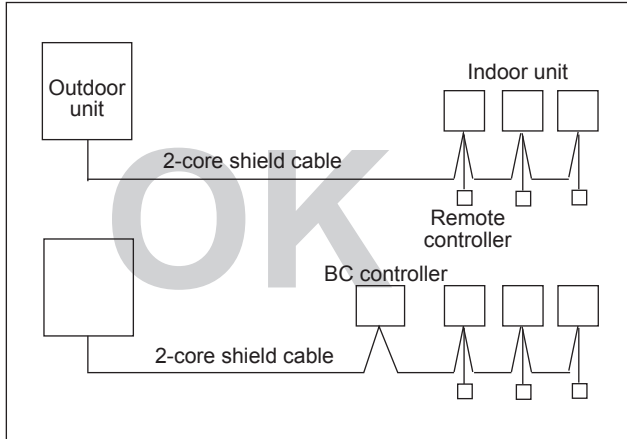
# SYSTEM DESIGN R2 SERIES

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# 1. Electrical work

## 1-1. General cautions

- ① Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations, and guidance of each electric power company.
- ② Wiring for control (hereinafter referred to as transmission cable) shall be (50mm[1-5/8in.] or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission cable and power source wire in the same conduit.)
- ③ Be sure to provide designated grounding work to outdoor unit.
- ④ Give some allowance to wiring for electrical part box of indoor and outdoor units, because the box is sometimes removed at the time of service work.
- ⑤ Never connect 380~415V(220~240V) power source to terminal block of transmission cable. If connected, electrical parts will be burnt out.
- ⑥ Use 2-core shield cable for transmission cable. If transmission cables of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.



# 1. Electrical work

## 1-2. Power supply for Indoor unit and Outdoor unit

### 1-2-1. Electrical characteristics of Indoor unit

Symbols: MCA : Min.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor

Output : Fan motor rated output

| PMFY-P-VBM-E  | Power supply                   |                          |        | IFM        |        |
|---------------|--------------------------------|--------------------------|--------|------------|--------|
|               | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PMFY-P20VBM-E | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.25   | 0.028      | 0.20   |
| PMFY-P25VBM-E |                                |                          | 0.26   | 0.028      | 0.21   |
| PMFY-P32VBM-E |                                |                          | 0.26   | 0.028      | 0.21   |
| PMFY-P40VBM-E |                                |                          | 0.33   | 0.028      | 0.26   |

| PLFY-P-VCM-E  | Power supply    |                          |        | IFM        |        |
|---------------|-----------------|--------------------------|--------|------------|--------|
|               | Volts / Hz      | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PLFY-P20VCM-E | 220-240V / 50Hz | Max.: 264V<br>Min.: 198V | 0.29   | 0.011      | 0.23   |
| PLFY-P25VCM-E |                 |                          | 0.29   | 0.015      | 0.23   |
| PLFY-P32VCM-E |                 |                          | 0.35   | 0.020      | 0.28   |
| PLFY-P40VCM-E |                 |                          | 0.35   | 0.020      | 0.28   |

| PLFY-P-VBM-E   | Power supply                   |                          |        | IFM        |        |
|----------------|--------------------------------|--------------------------|--------|------------|--------|
|                | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PLFY-P32VBM-E  | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.28   | 0.050      | 0.22   |
| PLFY-P40VBM-E  |                                |                          | 0.36   | 0.050      | 0.29   |
| PLFY-P50VBM-E  |                                |                          | 0.36   | 0.050      | 0.29   |
| PLFY-P63VBM-E  |                                |                          | 0.45   | 0.050      | 0.36   |
| PLFY-P80VBM-E  |                                |                          | 0.64   | 0.050      | 0.51   |
| PLFY-P100VBM-E |                                |                          | 1.25   | 0.120      | 1.00   |
| PLFY-P125VBM-E |                                |                          | 1.34   | 0.120      | 1.07   |

| PLFY-P-VLMD-E   | Power supply                       |                          |                    | IFM        |                    |
|-----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                 | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PLFY-P20VLMD-E  | 220-240V / 50Hz<br>220-230V / 60Hz | Max.: 264V<br>Min.: 198V | 0.45 / 0.46        | 0.015      | 0.36 / 0.37        |
| PLFY-P25VLMD-E  |                                    |                          | 0.45 / 0.46        | 0.015      | 0.36 / 0.37        |
| PLFY-P32VLMD-E  |                                    |                          | 0.45 / 0.46        | 0.015      | 0.36 / 0.37        |
| PLFY-P40VLMD-E  |                                    |                          | 0.50 / 0.53        | 0.015      | 0.40 / 0.42        |
| PLFY-P50VLMD-E  |                                    |                          | 0.51 / 0.54        | 0.020      | 0.41 / 0.43        |
| PLFY-P63VLMD-E  |                                    |                          | 0.61 / 0.64        | 0.020      | 0.49 / 0.51        |
| PLFY-P80VLMD-E  |                                    |                          | 0.90 / 0.93        | 0.020      | 0.72 / 0.74        |
| PLFY-P100VLMD-E |                                    |                          | 0.94 / 1.10        | 0.030      | 0.75 / 0.88        |
| PLFY-P125VLMD-E |                                    |                          | 1.69 / 1.69        | 0.078x2    | 1.35 / 1.35        |

| PEFY-P-VMR-E-L/R  | Power supply                       |                          |                    | IFM        |                    |
|-------------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                   | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P20VMR-E-L/R | 220-240V / 50Hz<br>220-230V / 60Hz | Max.: 264V<br>Min.: 198V | 0.37 / 0.37        | 0.018      | 0.29 / 0.29        |
| PEFY-P25VMR-E-L/R |                                    |                          | 0.37 / 0.37        | 0.018      | 0.29 / 0.29        |
| PEFY-P32VMR-E-L/R |                                    |                          | 0.43 / 0.48        | 0.023      | 0.34 / 0.38        |

| PEFY-P-VMS1-E  | Power supply                       |                          |                    | IFM        |                    |
|----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P15VMS1-E | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 0.63 / 0.63        | 0.096      | 0.50 / 0.50        |
| PEFY-P20VMS1-E |                                    |                          | 0.70 / 0.70        | 0.096      | 0.56 / 0.56        |
| PEFY-P25VMS1-E |                                    |                          | 0.75 / 0.75        | 0.096      | 0.60 / 0.60        |
| PEFY-P32VMS1-E |                                    |                          | 0.75 / 0.75        | 0.096      | 0.60 / 0.60        |
| PEFY-P40VMS1-E |                                    |                          | 0.83 / 0.82        | 0.096      | 0.66 / 0.65        |
| PEFY-P50VMS1-E |                                    |                          | 1.02 / 1.00        | 0.096      | 0.81 / 0.80        |
| PEFY-P63VMS1-E |                                    |                          | 1.08 / 1.07        | 0.096      | 0.86 / 0.85        |

# 1. Electrical work

Symbols: MCA : Min.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor

Output : Fan motor rated output

| PEFY-P-VMS1L-E  | Power supply                       |                          |                    | IFM        |                    |
|-----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                 | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P15VMS1L-E | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 0.46 / 0.46        | 0.096      | 0.37 / 0.37        |
| PEFY-P20VMS1L-E |                                    |                          | 0.54 / 0.54        | 0.096      | 0.43 / 0.43        |
| PEFY-P25VMS1L-E |                                    |                          | 0.59 / 0.59        | 0.096      | 0.47 / 0.47        |
| PEFY-P32VMS1L-E |                                    |                          | 0.59 / 0.59        | 0.096      | 0.47 / 0.47        |
| PEFY-P40VMS1L-E |                                    |                          | 0.68 / 0.68        | 0.096      | 0.54 / 0.54        |
| PEFY-P50VMS1L-E |                                    |                          | 0.84 / 0.84        | 0.096      | 0.67 / 0.67        |
| PEFY-P63VMS1L-E |                                    |                          | 0.91 / 0.91        | 0.096      | 0.73 / 0.73        |

| PEFY-P-VMH-E   | Power supply                       |                          |                    | IFM        |                    |
|----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P40VMH-E  | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 1.21 / 1.61        | 0.08       | 0.97 / 1.29        |
| PEFY-P50VMH-E  |                                    |                          | 1.21 / 1.61        | 0.08       | 0.97 / 1.29        |
| PEFY-P63VMH-E  |                                    |                          | 1.49 / 1.95        | 0.12       | 1.19 / 1.56        |
| PEFY-P71VMH-E  |                                    |                          | 1.58 / 2.18        | 0.14       | 1.26 / 1.74        |
| PEFY-P80VMH-E  |                                    |                          | 1.85 / 2.40        | 0.18       | 1.48 / 1.92        |
| PEFY-P100VMH-E |                                    |                          | 3.03 / 3.93        | 0.26       | 2.42 / 3.14        |
| PEFY-P125VMH-E |                                    |                          | 3.03 / 3.93        | 0.26       | 2.42 / 3.14        |
| PEFY-P140VMH-E |                                    |                          | 3.10 / 3.98        | 0.26       | 2.48 / 3.18        |
| PEFY-P200VMH-E | 380-415V / 50Hz                    | Max.: 456V               | 2.03 / 2.33        | 0.76       | 1.62 / 1.86        |
| PEFY-P250VMH-E | 380-415V / 60Hz                    | Min.: 342V               | 2.50 / 2.88        | 1.08       | 2.00 / 2.30        |

| PEFY-P-VMA-E   | Power supply                       |                          |        | IFM        |        |
|----------------|------------------------------------|--------------------------|--------|------------|--------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PEFY-P20VMA-E  | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 1.03   | 0.085      | 0.82   |
| PEFY-P25VMA-E  |                                    |                          | 1.03   | 0.085      | 0.82   |
| PEFY-P32VMA-E  |                                    |                          | 1.18   | 0.085      | 0.95   |
| PEFY-P40VMA-E  |                                    |                          | 1.43   | 0.085      | 1.14   |
| PEFY-P50VMA-E  |                                    |                          | 1.54   | 0.085      | 1.23   |
| PEFY-P63VMA-E  |                                    |                          | 2.22   | 0.121      | 1.78   |
| PEFY-P71VMA-E  |                                    |                          | 2.46   | 0.121      | 1.97   |
| PEFY-P80VMA-E  |                                    |                          | 2.47   | 0.121      | 1.98   |
| PEFY-P100VMA-E |                                    |                          | 3.30   | 0.244      | 2.64   |
| PEFY-P125VMA-E |                                    |                          | 3.39   | 0.244      | 2.71   |
| PEFY-P140VMA-E |                                    |                          | 3.29   | 0.244      | 2.63   |

| PEFY-P-VMAL-E   | Power supply                       |                          |        | IFM        |        |
|-----------------|------------------------------------|--------------------------|--------|------------|--------|
|                 | Volts / Hz                         | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PEFY-P20VMAL-E  | 220-240V / 50Hz<br>220-240V / 60Hz | Max.: 264V<br>Min.: 198V | 0.92   | 0.085      | 0.74   |
| PEFY-P25VMAL-E  |                                    |                          | 0.92   | 0.085      | 0.74   |
| PEFY-P32VMAL-E  |                                    |                          | 1.07   | 0.085      | 0.86   |
| PEFY-P40VMAL-E  |                                    |                          | 1.32   | 0.085      | 1.06   |
| PEFY-P50VMAL-E  |                                    |                          | 1.40   | 0.085      | 1.12   |
| PEFY-P63VMAL-E  |                                    |                          | 2.08   | 0.121      | 1.67   |
| PEFY-P71VMAL-E  |                                    |                          | 2.32   | 0.121      | 1.86   |
| PEFY-P80VMAL-E  |                                    |                          | 2.36   | 0.121      | 1.89   |
| PEFY-P100VMAL-E |                                    |                          | 3.19   | 0.244      | 2.55   |
| PEFY-P125VMAL-E |                                    |                          | 3.27   | 0.244      | 2.62   |
| PEFY-P140VMAL-E |                                    |                          | 3.17   | 0.244      | 2.53   |

| PEFY-P-VMH-E-F   | Power supply    |             |                    | IFM        |                    |
|------------------|-----------------|-------------|--------------------|------------|--------------------|
|                  | Volts / Hz      | Range +-10% | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PEFY-P80VMH-E-F  | 220-240V / 50Hz | Max.: 264V  | 0.92 / 1.15        | 0.09       | 0.73 / 0.92        |
| PEFY-P140VMH-E-F | 208-230V / 60Hz | Min.: 187V  | 1.58 / 1.84        | 0.14       | 1.26 / 1.47        |
| PEFY-P200VMH-E-F | 380-415V / 50Hz | Max.: 456V  | 0.73 / 0.93        | 0.20       | 0.58 / 0.74        |
| PEFY-P250VMH-E-F | 380-415V / 60Hz | Min.: 342V  | 0.85 / 1.08        | 0.23       | 0.68 / 0.86        |

# 1. Electrical work

Symbols: MCA : Min.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor

Output : Fan motor rated output

| PKFY-P-VBM-E  | Power supply                   |                          |        | IFM        |        |
|---------------|--------------------------------|--------------------------|--------|------------|--------|
|               | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PKFY-P15VBM-E | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.25   | 0.017      | 0.20   |
| PKFY-P20VBM-E |                                |                          | 0.25   | 0.017      | 0.20   |
| PKFY-P25VBM-E |                                |                          | 0.25   | 0.017      | 0.20   |

| PKFY-P-VHM-E  | Power supply                   |                          |        | IFM        |        |
|---------------|--------------------------------|--------------------------|--------|------------|--------|
|               | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PKFY-P32VHM-E | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.38   | 0.030      | 0.30   |
| PKFY-P40VHM-E |                                |                          | 0.38   | 0.030      | 0.30   |
| PKFY-P50VHM-E |                                |                          | 0.38   | 0.030      | 0.30   |

| PKFY-P-VKM-E   | Power supply                   |                          |        | IFM        |        |
|----------------|--------------------------------|--------------------------|--------|------------|--------|
|                | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PKFY-P63VKM-E  | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.36   | 0.056      | 0.29   |
| PKFY-P100VKM-E |                                |                          | 0.63   | 0.056      | 0.50   |

| PCFY-P-VKM-E   | Power supply                   |                          |        | IFM        |        |
|----------------|--------------------------------|--------------------------|--------|------------|--------|
|                | Volts / Hz                     | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PCFY-P40VKM-E  | 220-240V / 50Hz<br>220V / 60Hz | Max.: 264V<br>Min.: 198V | 0.35   | 0.090      | 0.28   |
| PCFY-P63VKM-E  |                                |                          | 0.41   | 0.095      | 0.33   |
| PCFY-P100VKM-E |                                |                          | 0.81   | 0.160      | 0.65   |
| PCFY-P125VKM-E |                                |                          | 0.95   | 0.160      | 0.76   |

| PFFY-P-VKM-E  | Power supply    |                          |        | IFM        |        |
|---------------|-----------------|--------------------------|--------|------------|--------|
|               | Volts / Hz      | Range +-10%              | MCA(A) | Output(kW) | FLA(A) |
| PFFY-P20VKM-E | 220-240V / 50Hz | Max.: 264V<br>Min.: 198V | 0.25   | 0.03x2     | 0.20   |
| PFFY-P25VKM-E |                 |                          | 0.25   | 0.03x2     | 0.20   |
| PFFY-P32VKM-E |                 |                          | 0.25   | 0.03x2     | 0.20   |
| PFFY-P40VKM-E |                 |                          | 0.30   | 0.03x2     | 0.24   |

| PFFY-P-VLEM-E  | Power supply                       |                          |                    | IFM        |                    |
|----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PFFY-P20VLEM-E | 220-240V / 50Hz<br>208-230V / 60Hz | Max.: 264V<br>Min.: 187V | 0.24 / 0.31        | 0.015      | 0.19 / 0.25        |
| PFFY-P25VLEM-E |                                    |                          | 0.24 / 0.31        | 0.015      | 0.19 / 0.25        |
| PFFY-P32VLEM-E |                                    |                          | 0.36 / 0.38        | 0.018      | 0.29 / 0.30        |
| PFFY-P40VLEM-E |                                    |                          | 0.40 / 0.41        | 0.030      | 0.32 / 0.33        |
| PFFY-P50VLEM-E |                                    |                          | 0.50 / 0.51        | 0.035      | 0.40 / 0.41        |
| PFFY-P63VLEM-E |                                    |                          | 0.58 / 0.59        | 0.050      | 0.46 / 0.47        |

# 1. Electrical work

Symbols: MCA : Min.Circuit Amps (=1.25xFLA) FLA : Full Load Amps

IFM :Indoor Fan Motor Output : Fan motor rated output

| PFFY-P-VLRM-E  | Power supply                       |                          |                    | IFM        |                    |
|----------------|------------------------------------|--------------------------|--------------------|------------|--------------------|
|                | Volts / Hz                         | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PFFY-P20VLRM-E | 220-240V / 50Hz<br>208-230V / 60Hz | Max.: 264V<br>Min.: 187V | 0.24 / 0.31        | 0.015      | 0.19 / 0.25        |
| PFFY-P25VLRM-E |                                    |                          | 0.24 / 0.31        | 0.015      | 0.19 / 0.25        |
| PFFY-P32VLRM-E |                                    |                          | 0.36 / 0.38        | 0.018      | 0.29 / 0.30        |
| PFFY-P40VLRM-E |                                    |                          | 0.40 / 0.41        | 0.030      | 0.32 / 0.33        |
| PFFY-P50VLRM-E |                                    |                          | 0.50 / 0.51        | 0.035      | 0.40 / 0.41        |
| PFFY-P63VLRM-E |                                    |                          | 0.58 / 0.59        | 0.050      | 0.46 / 0.47        |

| PFFY-P-VLRMM-E  | Power supply    |                          |                    | IFM        |                    |
|-----------------|-----------------|--------------------------|--------------------|------------|--------------------|
|                 | Volts / Hz      | Range +-10%              | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| PFFY-P20VLRMM-E | 220-240V / 50Hz | Max.: 264V<br>Min.: 198V | 0.59 / 0.58        | 0.096      | 0.47 / 0.46        |
| PFFY-P25VLRMM-E |                 |                          | 0.59 / 0.58        | 0.096      | 0.47 / 0.46        |
| PFFY-P32VLRMM-E |                 |                          | 0.69 / 0.69        | 0.096      | 0.55 / 0.55        |
| PFFY-P40VLRMM-E |                 |                          | 0.78 / 0.76        | 0.096      | 0.62 / 0.61        |
| PFFY-P50VLRMM-E |                 |                          | 0.80 / 0.79        | 0.096      | 0.64 / 0.63        |
| PFFY-P63VLRMM-E |                 |                          | 0.93 / 0.93        | 0.096      | 0.74 / 0.74        |

| GUF-RDH3      | Power supply    |             |                    | IFM        |                    |
|---------------|-----------------|-------------|--------------------|------------|--------------------|
|               | Volts / Hz      | Range +-10% | MCA(A) (50 / 60Hz) | Output(kW) | FLA(A) (50 / 60Hz) |
| GUF-50RD(H)3  | 220-240V / 50Hz | Max.: 264V  | 1.85 / 1.85        | 0.081x2    | 1.48 / 1.48        |
| GUF-100RD(H)3 | 220V / 60Hz     | Min.: 198V  | 3.49 / 3.49        | 0.16x2     | 2.79 / 2.79        |

# 1. Electrical work

## 1-2-2. Electrical characteristics of Outdoor unit at cooling mode

| Model                | Unit Combination | Units |       |                          | Power supply | Compressor  |        | FAN         | RLA (A) (50 / 60Hz) |                |  |
|----------------------|------------------|-------|-------|--------------------------|--------------|-------------|--------|-------------|---------------------|----------------|--|
|                      |                  | Hz    | Volts | Voltage range            | MCA(A)       | Output (kW) | SC (A) | Output (kW) | Cooling             | Heating        |  |
| PURY-RP200YJM-A(-BS) | -                | 50/60 | 380   | Max : 456V<br>Min : 342V | 16.1         | 5.4         | 8      | 0.92        | 8.8/8.3/8.0         | 9.8/9.3/8.9    |  |
| PURY-RP250YJM-A(-BS) | -                |       | 400   |                          | 17.5         | 6.8         |        | 0.92        | 12.2/11.6/11.2      | 13.0/12.3/11.9 |  |
| PURY-RP300YJM-A(-BS) | -                |       | 415   |                          | 21.4         | 7.8         |        | 0.92        | 14.9/14.1/13.6      | 16.0/15.2/14.6 |  |

## 1-3. Power cable specifications

Thickness of wire for main power supply, capacities of the switch and system impedance

|                                            | Model           | Minimum wire thickness (mm <sup>2</sup> ) |        |        | Breaker for current leakage | Local switch (A) |      | Breaker for wiring (NFB) (A) | Max. Permissible System Impedance |
|--------------------------------------------|-----------------|-------------------------------------------|--------|--------|-----------------------------|------------------|------|------------------------------|-----------------------------------|
|                                            |                 | Main cable                                | Branch | Ground |                             | Capacity         | Fuse |                              |                                   |
| Outdoor unit                               | PURY-RP200YJM-A | 4                                         | -      | 4      | 30A 100mA 0.1sec. or less   | 25               | 25   | 30                           | *1                                |
|                                            | PURY-RP250YJM-A | 4                                         | -      | 4      | 30A 100mA 0.1sec. or less   | 25               | 25   | 30                           | *1                                |
|                                            | PURY-RP300YJM-A | 4                                         | -      | 4      | 30A 100mA 0.1sec. or less   | 32               | 32   | 30                           | *1                                |
| Total operating current of the indoor unit | 16A or less     | 1.5                                       | 1.5    | 1.5    | 20A 100mA 0.1sec. or less   | 16               | 16   | 20                           | (apply to IEC61000-3-3)           |
|                                            | 25A or less     | 2.5                                       | 2.5    | 2.5    | 30A 100mA 0.1sec. or less   | 25               | 25   | 30                           | (apply to IEC61000-3-3)           |
|                                            | 32A or less     | 4.0                                       | 4.0    | 4.0    | 40A 100mA 0.1sec. or less   | 32               | 32   | 40                           | (apply to IEC61000-3-3)           |

\*1: Meet technical requirements of IEC61000-3-3

1. Use dedicated power supplies for the outdoor unit and indoor unit. Ensure OC and OS are wired individually.
2. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain water, etc.) when proceeding with the wiring and connections.
3. The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter. Make sure the power-supply voltage does not drop more than 10%.
4. Specific wiring requirements should adhere to the wiring regulations of the region.
5. Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 245 IEC57). For example, use wiring such as YZW.
6. A switch with at least 3 mm contact separation in each pole shall be provided by the Air Conditioner installer.

### ⚠ WARNING

- ◆ Be sure to use specified wires for connections and ensure no external force is imparted to terminal connections. If connections are not fixed firmly, heating or fire may result.
- ◆ Be sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.

### ⚠ CAUTION

- ◆ Some installation sites may require attachment of an earth leakage breaker for the inverter. If no earth leakage breaker is installed, there is a danger of electric shock.
- ◆ Do not use anything other than a breaker and fuse with the correct capacity. Using a fuse or wire of too large capacity may cause malfunction or fire.
- ◆ Check the existing wires for damage to insulation by measuring the resistance between the lead and the ground with a 500V ohmmeter. If the insulation resistance is less than 100 MΩ, replace the wires.

### Note

- ◆ This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the above table at the interface point (power service box) of the user's supply.
- ◆ The user must ensure that this device is connected only to a power supply system which fulfils the requirement above. If necessary, the user can ask the public power supply company for the system impedance at the interface point.
- ◆ This equipment complies with IEC 61000-3-12 provided that the short-circuit power  $S_{sc}$  is greater than or equal to  $S_{sc}(*2)$  at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power  $S_{sc}$  greater than or equal to  $S_{sc}(*2)$ .

$S_{sc}(*2)$

| Model         | $S_{sc}(MVA)$ |
|---------------|---------------|
| PURY-RP200YJM | 1.25          |
| PURY-RP250YJM | 1.36          |
| PURY-RP300YJM | 1.66          |



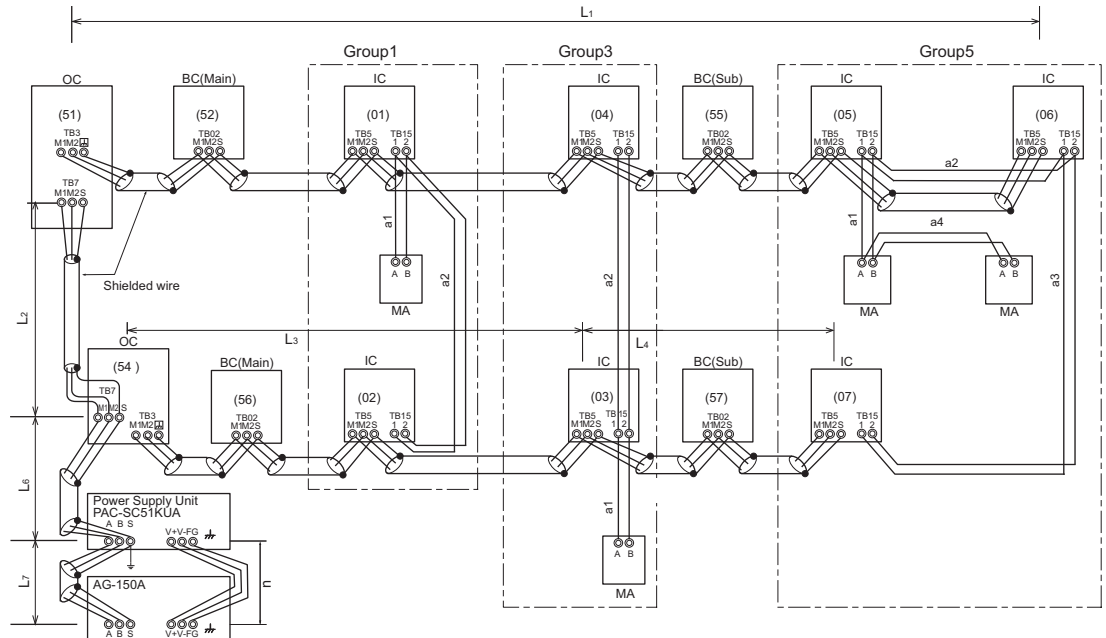
## 2. M-NET control

### 2-1. Transmission cable length limitation

#### 2-1-1. Using MA Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

|                                       |                                               |                                    |                                        |
|---------------------------------------|-----------------------------------------------|------------------------------------|----------------------------------------|
| Max. length via Outdoor (M-NET cable) | $L1+L2+L3+L4$ , $L1+L2+L6+L7$ , $L3+L4+L6+L7$ | $\leq 500\text{m}[1640\text{ft.}]$ | 1.25mm <sup>2</sup> [AWG16] or thicker |
| Max. length to Outdoor (M-NET cable)  | $L1$ , $L3+L4$ , $L6$ , $L2+L6$ , $L7$        | $\leq 200\text{m}[656\text{ft.}]$  | 1.25mm <sup>2</sup> [AWG16] or thicker |
| Max. length from MA to Indoor         | $a1+a2$ , $a1+a2+a3+a4$                       | $\leq 200\text{m}[656\text{ft.}]$  | 0.3-1.25 mm <sup>2</sup> [AWG22-16]    |
| 24VDC to AG-150A                      | $n$                                           | $\leq 50\text{m}[164\text{ft.}]$   | 0.75-2.0 mm <sup>2</sup> [AWG18-14]    |



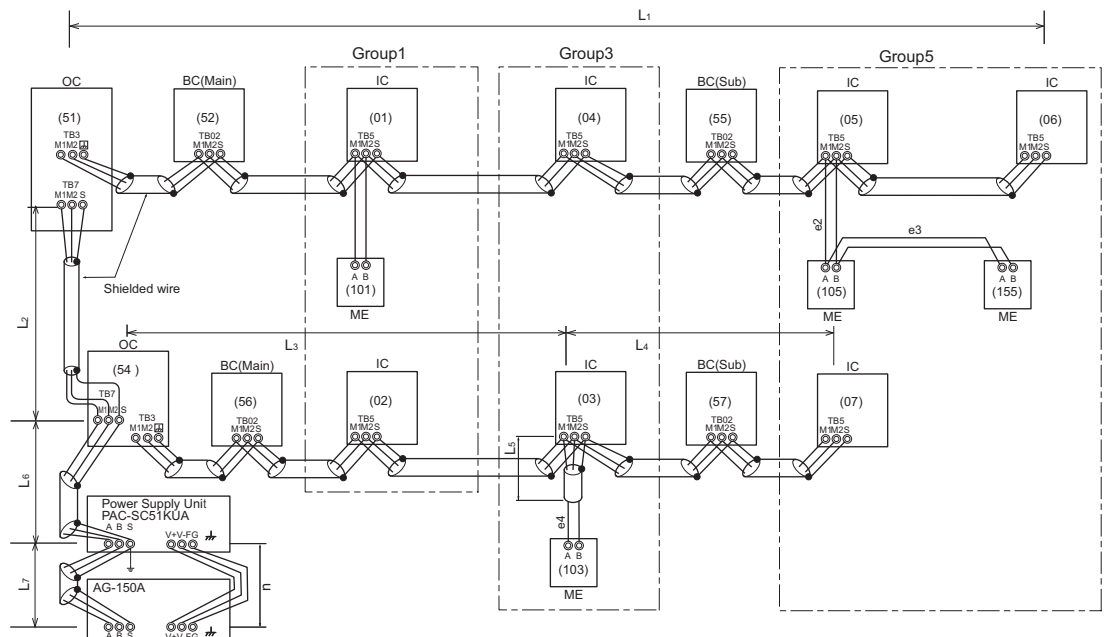
OC, OS : Outdoor unit controller; IC: Indoor unit controller; MA: MA remote controller

#### 2-1-2. Using ME Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

|                                       |                                                               |                                    |                                        |
|---------------------------------------|---------------------------------------------------------------|------------------------------------|----------------------------------------|
| Max. length via Outdoor (M-NET cable) | $L1+L2+L3+L4$ , $L1+L2+L6+L7$ , $L1+L2+L3+L5$ , $L3+L4+L6+L7$ | $\leq 500\text{m}[1640\text{ft.}]$ | 1.25mm <sup>2</sup> [AWG16] or thicker |
| Max. length to Outdoor (M-NET cable)  | $L1$ , $L3+L4$ , $L6$ , $L2+L6$ , $L7$ , $L3+L5$              | $\leq 200\text{m}[656\text{ft.}]$  | 1.25mm <sup>2</sup> [AWG16] or thicker |
| Max. length from ME to Indoor         | $e1$ , $e2+e3$ , $e4$                                         | $\leq 10\text{m}[32\text{ft.}]^*1$ | 0.3-1.25 mm <sup>2</sup> [AWG22-16] *1 |
| 24VDC to AG-150A                      | $n$                                                           | $\leq 50\text{m}[164\text{ft.}]$   | 0.75-2.0 mm <sup>2</sup> [AWG18-14]    |

\*1. If the length from ME to Indoor exceed 10m, use 1.25 mm<sup>2</sup> [AWG16] shielded cable, but the total length should be counted into Max. length via Outdoor.



OC, OS: Outdoor unit controller; IC: Indoor unit controller; ME: ME remote controller

## 2. M-NET control

### 2-2. Transmission cable specifications

|               | Transmission cables (Li)                       | ME Remote controller cables                                                                 | MA Remote controller cables                                                       |
|---------------|------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Type of cable | Shielding wire (2-core)<br>CVVS, CPEVS or MVVS | Sheathed 2-core cable (unshielded)<br>CVV                                                   |                                                                                   |
| Cable size    | More than 1.25mm <sup>2</sup> [AWG16]          | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1           | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1 |
| Remarks       | —                                              | When 10m [32ft] is exceeded, use cables with the same specification as transmission cables. | Max length : 200m [656ft]                                                         |

\*1 Connected with simple remote controller.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable  
CPEVS : PE insulated PVC jacketed shielded communication cable  
CVV : PV insulated PVC sheathed control cable

#### CAUTION

Check the existing wires for damage to insulation by measuring the resistance between the lead and the ground with a 500V ohmmeter. If the insulation resistance is less than 100 MΩ, replace the wires.

Disconnect all controllers before measuring insulation resistance to avoid controller damage.

Note: Disconnect the system controller before starting a refrigerant oil recovery operation, if one is connected.

Reconnect the system controller after the completion of the refrigerant oil recovery operation.

## 2. M-NET control

### 2-2-1. Reusability check of the existing transmission lines for Replace Multi units

Use the flowcharts on the following pages to determine the reusability of the existing transmission lines. Obtain the system configuration drawing, fill out the checklist, and make a decision based on them.

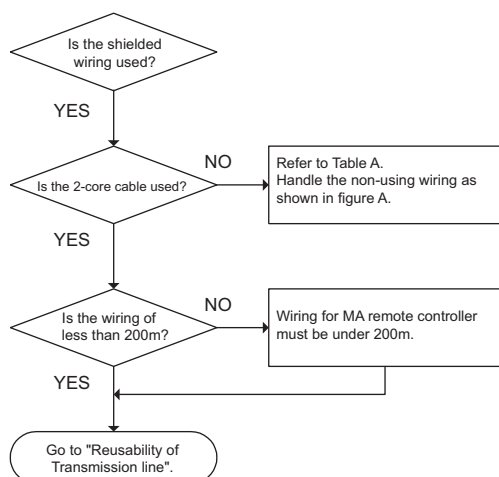
Existing transmission lines reusability checklist

| Check items                                                                                                                                                                                    | Findings                | Notes |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------|
| 1. Remote controller cable (MA remote controller)                                                                                                                                              |                         |       |
| (1) Length                                                                                                                                                                                     | m                       |       |
| (2) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (3) Number of cores                                                                                                                                                                            | Cores                   |       |
| (4) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| 2. Remote controller cable (M-NET remote controller)                                                                                                                                           |                         |       |
| (1) Length *1                                                                                                                                                                                  | m                       |       |
| (2) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (3) Number of cores                                                                                                                                                                            | Cores                   |       |
| (4) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| 3. Remote controller cable (system controller)                                                                                                                                                 |                         |       |
| (1) Length *1                                                                                                                                                                                  | m                       |       |
| (2) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (3) Number of cores                                                                                                                                                                            | Cores                   |       |
| (4) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| (5) System controller connection (Indoor unit system/centralized control system)                                                                                                               | Indoor/Centralized      |       |
| 4. Indoor-outdoor transmission line                                                                                                                                                            |                         |       |
| (1) Refrigerant system (Single/Multiple)                                                                                                                                                       | Single/Multiple         |       |
| (2) Length of transmission line to the farthest unit *1                                                                                                                                        | m                       |       |
| (3) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (4) Number of cores                                                                                                                                                                            | Cores                   |       |
| (5) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| (6) Number of connected indoor units                                                                                                                                                           | units                   |       |
| 5. Centralized control transmission line                                                                                                                                                       |                         |       |
| (1) Length of transmission line to the farthest unit *1                                                                                                                                        | m                       |       |
| (2) Cable size                                                                                                                                                                                 | mm <sup>2</sup>         |       |
| (3) Number of cores                                                                                                                                                                            | Cores                   |       |
| (4) Cable type (shielded/unshielded)                                                                                                                                                           | Shielded/Unshielded     |       |
| 6. Availability of system configuration drawing (Obtain one as much as possible.)                                                                                                              | Available/Not available |       |
| 7. Noise-related problems with the old units<br>(Write down the nature of the problem in the "Notes" column, if any.)                                                                          | Available/Not available |       |
| 8. Are there any high-frequency medical equipment in the adjacent area that could cause noise-interference?<br>(Write down the specific nature of the concerns in the "Notes" column, if any.) | Available/Not available |       |

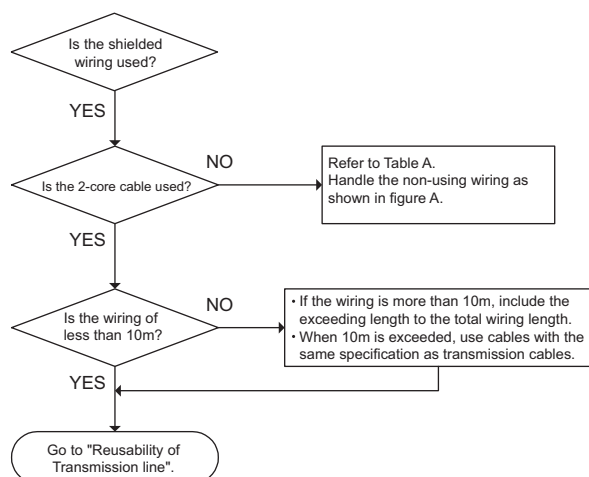
\*1: If the remote controller (M-NET/System controller) length exceeds 10 m, include the exceeded length in the calculation of the transmission line length (indoor-outdoor transmission line/centralized control system).

## 2. M-NET control

### Reusability of MA remote controller wiring



### Reusability of M-NET remote controller wiring



### Reusability of System controller wiring

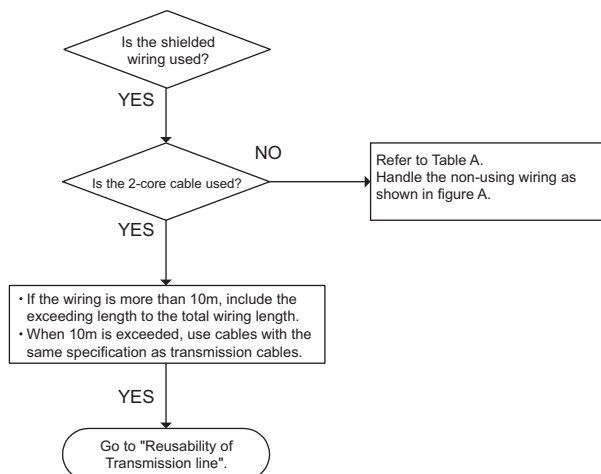


Figure A. Non-using wiring

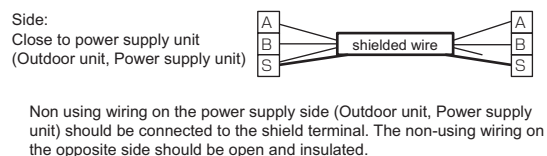


Table A

|               | Transmission cables (Li)                       | ME Remote controller cables                                                                 | MA Remote controller cables                                                       |
|---------------|------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Type of cable | Shielding wire (2-core)<br>CVVS, CPEVS or MVVS | Sheathed 2-core cable (unshielded)<br>CVV                                                   |                                                                                   |
| Cable size    | More than 1.25mm <sup>2</sup> [AWG16]          | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1           | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1 |
| Remarks       | —                                              | When 10m [32ft] is exceeded, use cables with the same specification as transmission cables. | Max length : 200m [656ft]                                                         |

\*1 Connected with simple remote controller.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable  
CPEVS : PE insulated PVC jacketed shielded communication cable  
CVV : PV insulated PVC sheathed control cable

## 2. M-NET control

### Reusability of Transmission line

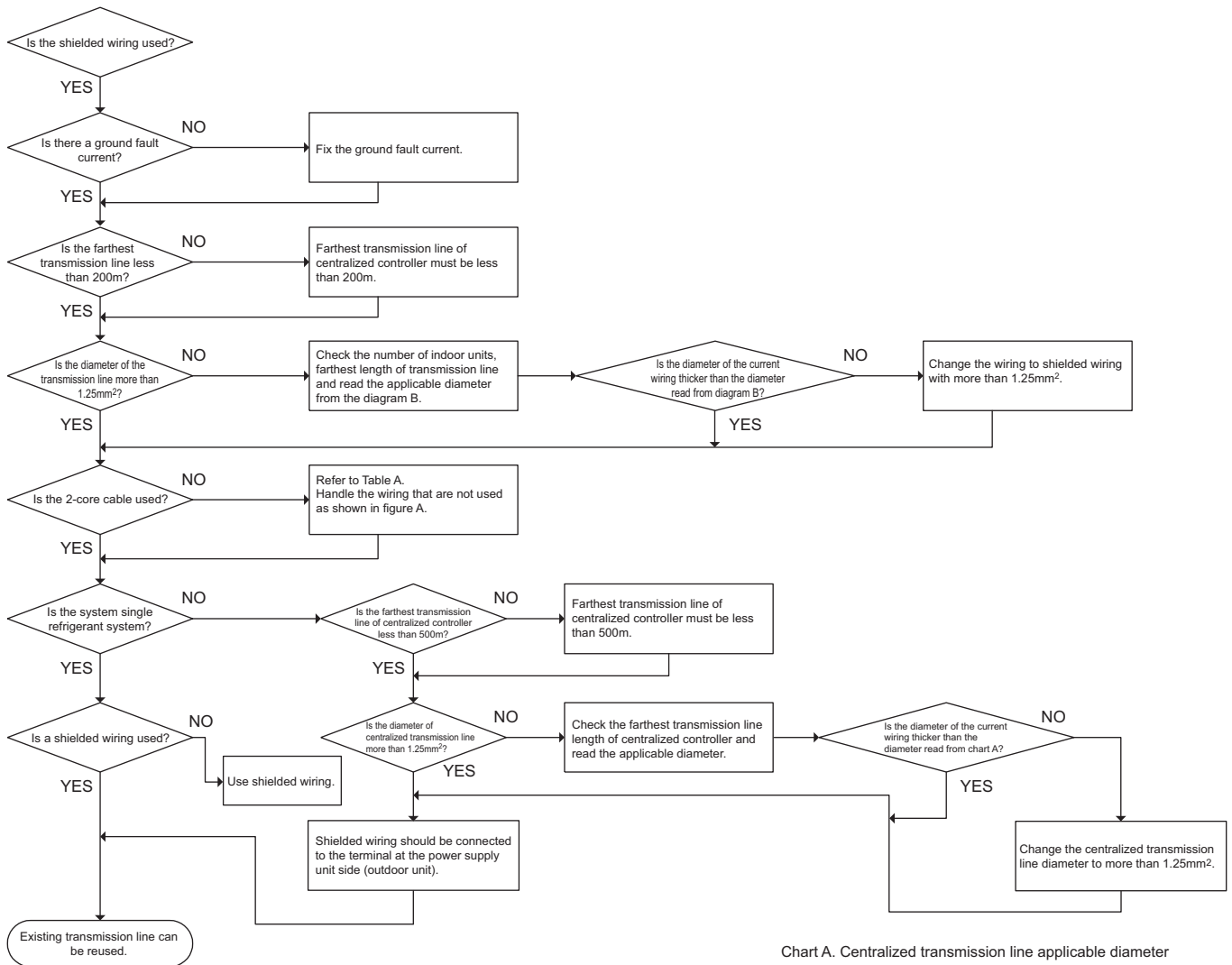
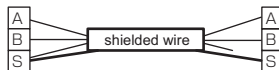


Figure A. Non-using wiring

Side:  
Close to power supply unit  
(Outdoor unit, Power supply unit)



Non using wiring on the power supply side (Outdoor unit, Power supply unit) should be connected to the shield terminal. The non-using wiring on the opposite side should be open and insulated.

Chart A. Centralized transmission line applicable diameter

| Length between power supply unit to outdoor unit and system controller | Wiring diameter              |
|------------------------------------------------------------------------|------------------------------|
| Less than 200m                                                         | More than 0.5mm <sup>2</sup> |
| Less than 130m                                                         | More than 0.3mm <sup>2</sup> |

Table A

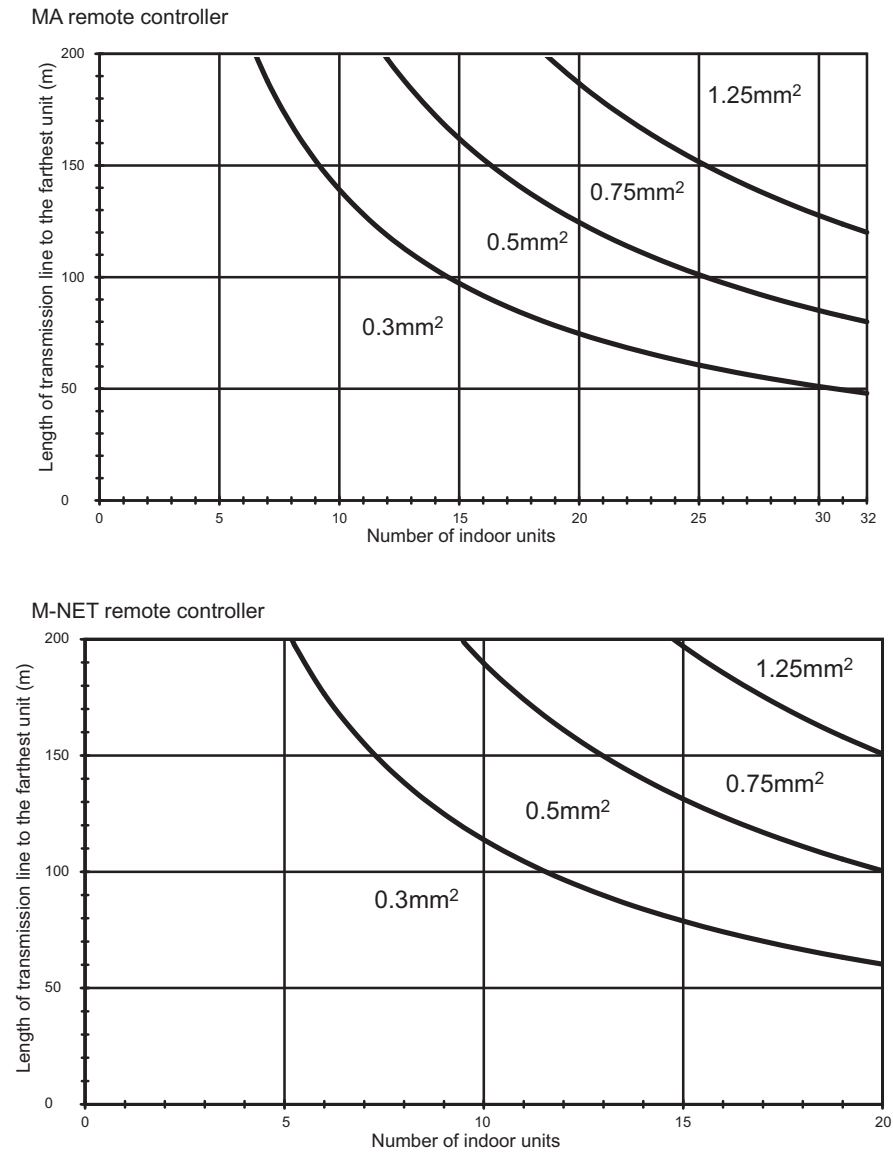
|               | Transmission cables (Li)                       | ME Remote controller cables                                                                 | MA Remote controller cables                                                       |
|---------------|------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Type of cable | Shielding wire (2-core)<br>CVVS, CPEVS or MVVS | Sheathed 2-core cable (unshielded)<br>CVV                                                   |                                                                                   |
| Cable size    | More than 1.25mm <sup>2</sup> [AWG16]          | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1           | 0.3 ~ 1.25mm <sup>2</sup> [AWG22~16]<br>(0.75 ~ 1.25mm <sup>2</sup> [AWG18~16])*1 |
| Remarks       | —                                              | When 10m [32ft] is exceeded, use cables with the same specification as transmission cables. | Max length : 200m [656ft]                                                         |

\*1 Connected with simple remote controller.

CVVS, MVVS : PVC insulated PVC jacketed shielded control cable  
CPEVS : PE insulated PVC jacketed shielded communication cable  
CVV : PV insulated PVC sheathed control cable

2. M-NET control

Diagram B Checking the cable size



## 2. M-NET control

### 2-3. System configuration restrictions

#### 2-3-1. Common restrictions for the CITYMULTI system

For each Outdoor unit, the maximum connectable quantity of Indoor unit is specified at its Specifications table.

- A) 1 Group of Indoor units can have 1-16 Indoor units;  
\*OA processing unit GUF-RD(H) is considered as Indoor unit.
  - B) Maximum 2 remote controllers for 1 Group; (MA/ME remote controllers cannot be present together in 1group.)
  - C) 1 LOSSNAY unit can interlock maximum 16 Indoor units; 1 Indoor unit can interlock only 1 LOSSNAY unit.
  - D) Maximum 3 System controllers are connectable when connecting to TB3 of the Outdoor unit.
  - E) Maximum 3 System controllers are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the Outdoor unit.
  - F) 4 System controllers or more are connectable when connecting to TB7 of the Outdoor unit, if the transmission power is supplied by the power supply unit PAC-SC51KUA. Details refer to 2-3-3-C.
- \*System controller connected as described in D) and E) would have a risk that the failure of connected Outdoor unit would stop power supply to the System controller.

#### 2-3-2. Ensuring proper communication power for M-NET

In order to ensure proper communication among Outdoor unit, Indoor unit, LOSSNAY, and OA processing unit GUF-RD(H), and Controllers, the transmission power situation for the M-NET should be observed. In some cases, Transmission booster should be used. Taking the power consumption of Indoor unit sized P20-P140 as 1, the equivalent power consumption or supply of others are listed at Table 2-3-1 and Table 2-3-2.

Table 2-3-1 The equivalent power consumption

| Indoor, OA unit               | Indoor unit     | BC controller | MARC. LOSSNAY                                                      | ME Remote Contr.                       | Timers, System Contr.                                |        | ON/OFF Contr. | MN Conrerter  |               |
|-------------------------------|-----------------|---------------|--------------------------------------------------------------------|----------------------------------------|------------------------------------------------------|--------|---------------|---------------|---------------|
| Sized P15-P140<br>GUF-50, 100 | Sized P200,P250 | CMB           | PAR-21MAA<br>PAC-YT51CRA(B)<br>PAR-FA32MA<br>LGH-RX-E<br>PZ-60DR-E | PAR-F27MEA<br>PAC-SE51CRA<br>PZ-52SF-E | PAC-SC30GRA<br>PAC-SF44SRA<br>PAC-YT34STA<br>AG-150A | GB-50A | PAC-YT40ANRA  | CMS<br>-MNF-B | CMS<br>-MNG-E |
| 1                             | 7               | 2             | 0                                                                  | 1/4                                    | 1/2                                                  | 3      | 1             | 1/2           | 2             |

\*RC : Remote Controller

Table 2-3-2 The equivalent power supply

| Transmission Booster | Power supply unit | Expansion controller | Outdoor unit                  | Outdoor unit       |
|----------------------|-------------------|----------------------|-------------------------------|--------------------|
| PAC-SF46EPA          | PAC-SC51KUA       | PAC-YG50ECA          | Connector TB3 and TB7 total * | Connector TB7 only |
| 25                   | 5                 | 6                    | 32                            | 6                  |

\*If PAC-SC51KUA is used to supply power at TB7 side, no power supply need from Outdoor unit at TB7, Connector TB3 itself will therefore have 32. Not applicable to the PUMY model.

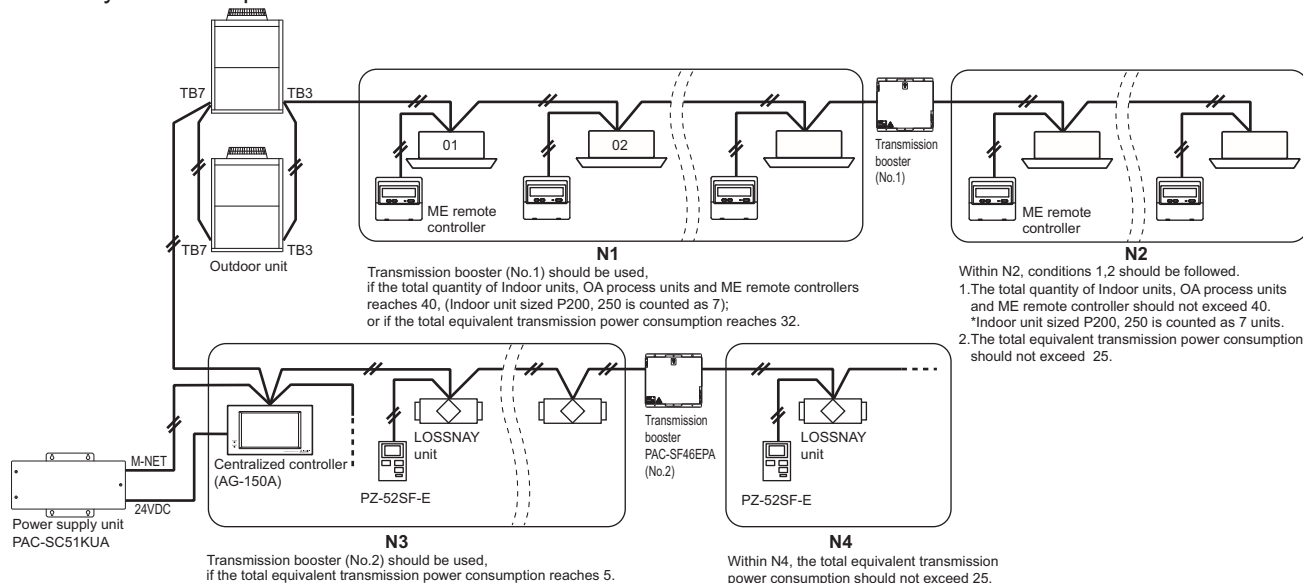
With the equivalent power consumption values in Table 2-3-1 and Table 2-3-2, PAC-SF46EPA can be designed into the air-conditioner system to ensure proper system communication according to 2-3-2-A, B, C.

2-3-2-A) Firstly, count from TB3 at TB3 side the total quantity of Indoor units, OA process units and ME remote controller, Timers and System controllers. If the total quantity reaches 40, a PAC-SF46EPA should be set. In this case, Indoor unit sized P200, 250 is counted as 7 Indoor units, but MA remote controller(s), LOSSNAY, PZ-60DR-E is NOT counted.

2-3-2-B) Secondly, count from TB7 side to TB3 side the total transmission power consumption. If the total power consumption reaches 32, a PAC-SF46EPA should be set. Yet, if a PAC-SC51KUA is used to supply power at TB7 side, count from TB3 side only.

2-3-2-C) Thirdly, count from TB7 at TB7 side the total transmission power consumption, If the total power consumption reaches 6, a PAC-SF46EPA should be set.

#### ■ System example



## 2. M-NET control

### 2-3-3. Ensuring proper power supply to System controller

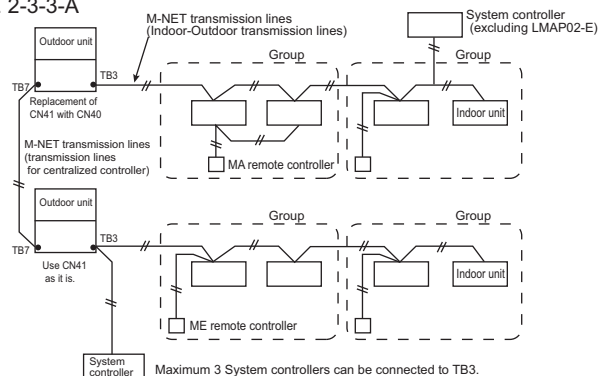
The power to System controller (excluding LMAP02-E) is supplied via M-NET transmission line. M-NET transmission line at TB7 side is called Centralized control transmission line while one at TB3 side is called Indoor-Outdoor transmission line. There are 3 ways to supply power to the System controller .

- Connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.
- Connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.
- Connecting to TB7 of the Outdoor unit but receiving power from power supply unit PAC-SC51KUA.

#### 2-3-3-A. When connecting to TB3 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 3 System controllers can be connected to TB3. If there is more than 1 Outdoor unit, it is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor unit.

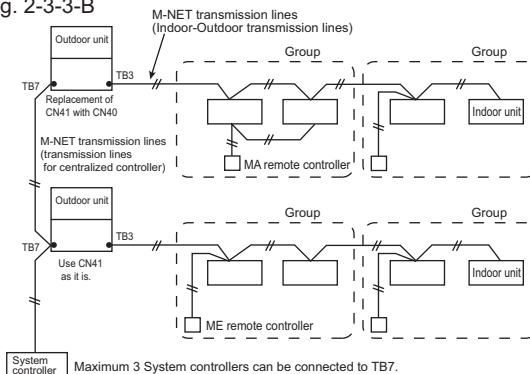
Fig. 2-3-3-A



#### 2-3-3-B. When connecting to TB7 of the Outdoor unit and receiving power from the Outdoor unit.

Maximum 3 System controllers can be connected to TB7 and receiving power from the Outdoor unit. It is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor unit.

Fig. 2-3-3-B

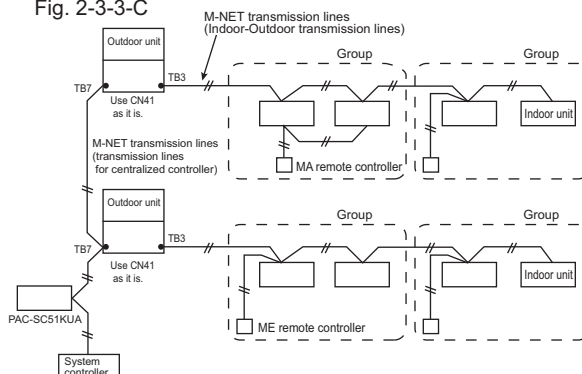


#### 2-3-3-C. When connecting to TB7 of the Outdoor unit but receiving power from PAC-SC51KUA.

When using PAC-SC51KUA to supply transmission power, the power supply connector CN41 on the Outdoor units should be kept as it is. It is also a factory setting. 1 PAC-SC51KUA supports maximum 1 AG-150A unit due to the limited power 24VDC at its TB3. However, 1 PAC-SC51KUA supplies transmission power at its TB2 equal to 5 Indoor units, which is referable at Table 2-3-2.

If PZ-52SF-E, Timers, System controller, ON/OFF controller connected to TB7 consume transmission power more than 5 (Indoor units), Transmission booster PAC-SF46EPA is needed. PAC-SF46EPA supplies transmission power equal to 25 Indoor units.

Fig. 2-3-3-C



### CAUTION

AG-150A is recommended to connect to TB7 because it performs back-up to a number of data.

In an air conditioner system has more than 1 Outdoor units, AG-150A receiving transmission power through TB7 on one of the Outdoor units would have a risk that the connected Outdoor unit failure would stop power supply to AG-150A, and disrupt the whole system.

When applying apportioned electric power function, AG-150A is necessary to connected to TB7 and has its own power supply unit PAC-SC51KUA.\*

\*Power supply unit PAC-SC51KUA is for AG-150A.

## 2. M-NET control

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### 2-3-4. Power supply to LM adapter LMAP02-E

1-phase 220-240V AC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary when connecting only the LMAP02-E. Yet, make sure to change the power supply changeover connector CN41 to CN40 on the LM adapter.

### 2-3-5. Power supply to expansion controller

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary.

The expansion controller supplies power through TB3, which equals 6 indoor units. (refer to Table 2-3-2)

### 2-3-6. Power supply to BM ADAPTER

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary when only BM ADAPTER is connected.

Yet, make sure to move the power jumper from CN41 to CN40 on the BM ADAPTER.

## 2. M-NET control

### 2-4. Address setting

#### 2-4-1. Switch operation

In order to constitute CITY MULTI in a complete system, switch operation for setting the unit address No. and connection No. is required.

① Address No. of outdoor unit, indoor unit and remote controller.

The address No. is set at the address setting board.

In the case of R2 system, it is necessary to set the same No. at the branch No. switch of indoor unit as that of the BC controller connected. (When connecting two or more branches, use the lowest branch No.)

② Caution for switch operations

- Be sure to shut off power source before switch setting. If operated with power source on, switch can not operate properly.
- No units with identical unit address shall exist in one whole air conditioner system. If set erroneously, the system can not operate.

③ MA remote controller

- When connecting only one remote controller to one group, it is always the main remote controller. When connecting two remote controllers to one group, set one remote controller as the main remote controller and the other as the sub remote controller.
- The factory setting is "Main".

#### PAR-21MAA

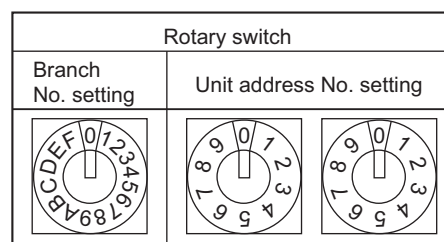
The MA remote controller does not have the switches listed above.  
Refer to the installation manual for the function setting.

#### PAC-YT51CRB

##### Setting the dip switches

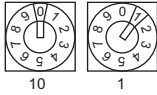
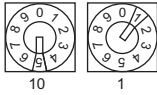
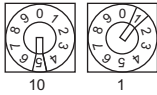
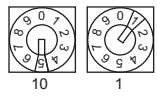
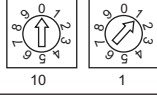
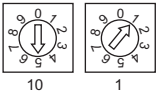
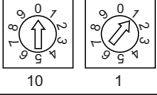
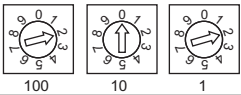
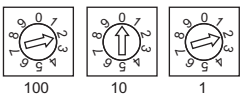
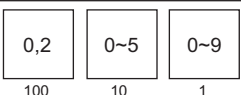
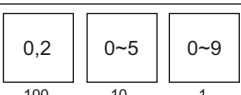
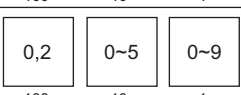
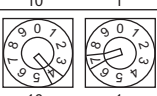
There are switches on the front of the remote controller. Remote controller Main/Sub and other function settings are performed using these switches. Ordinarily, only change the Main/Sub setting of SW1.  
(The factory settings are all "ON".)

| SW No | SW contents Main                     | ON      | OFF        | Comment                                                                                |
|-------|--------------------------------------|---------|------------|----------------------------------------------------------------------------------------|
| 1     | Remote controller Main/Sub setting   | Main    | Sub        | Set one of the two remote controllers at one group to "Main"                           |
| 2     | Temperature display units setting    | Celsius | Fahrenheit | When the temperature is displayed in [Fahrenheit], set to "No".                        |
| 3     | Cooling/heating display in AUTO mode | Yes     | No         | When you do not want to display "Cooling" and "Heating" in the Auto mode, set to "No". |



## 2. M-NET control

### 2-4-2. Rule of setting address

| Unit                    |                                      | Address setting         | Example                                                                                                       | Note                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|--------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indoor unit             |                                      | 01 ~ 50                 |                              | <p>Use the most recent address within the same group of indoor units. Make the indoor units address connected to the BC controller (Sub) larger than the indoor units address connected to the BC controller (Main).</p> <p>If applicable, set the sub BC controllers in an PURY system in the following order:</p> <ol style="list-style-type: none"> <li>(1) Indoor unit to be connected to the BC controller (Main)</li> <li>(2) Indoor unit to be connected to the BC controller (No.1 Sub)</li> <li>(3) Indoor unit to be connected to the BC controller (No.2 Sub)</li> </ol> <p>Set the address so that (1)&lt;(2)&lt;(3)</p> |
| Outdoor unit            |                                      | 51 ~ 99, 100<br>(Note1) |                              | <p>The smallest address of indoor unit in same refrigerant system + 50</p> <p>Assign sequential address numbers to the outdoor units in one refrigerant circuit system. OC, OS1 and OS2 are automatically detected. (Note 2)</p> <p>* Please reset one of them to an address between 51 and 99 when two addresses overlap.</p> <p>* The address automatically becomes "100" if it is set as "01~ 50"</p>                                                                                                                                                                                                                             |
| BC controller (Main)    |                                      | 52 ~ 99, 100            |                              | <p>The address of outdoor unit + 1</p> <p>* Please reset one of them to an address between 51 and 99 when two addresses overlap.</p> <p>* The address automatically becomes "100" if it is set as "01~ 50"</p>                                                                                                                                                                                                                                                                                                                                                                                                                       |
| BC controller (Sub)     |                                      | 52 ~ 99, 100            |                             | <p>Lowest address within the indoor units connected to the BC controller (Sub) plus 50.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Local remote controller | ME, LOSSNAY Remote controller (Main) | 101 ~ 150               | <p><b>1</b><br/>Fixed</p>  | <p>The smallest address of indoor unit in the group + 100</p> <p>* The place of "100" is fixed to "1"</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                         | ME, LOSSNAY Remote controller (Sub)  | 151 ~ 199, 200          | <p><b>1</b><br/>Fixed</p>  | <p>The address of main remote controller + 50</p> <p>* The address automatically becomes "200" if it is set as "00"</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| System controller       | Group remote controller              | 201 ~ 250               | <p><b>2</b><br/>Fixed</p>  | <p>The smallest group No. to be managed + 200</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                         | System remote controller             | 000, 201 ~ 250          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                         | ON/OFF remote controller             | 000, 201 ~ 250          |                            | <p>The smallest group No. to be managed + 200</p> <p>* The smallest group No. to be managed is changeable.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                         | AG-150A<br>GB-50A                    | 000, 201 ~ 250          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                         | PAC-YG50ECA                          | 000, 201 ~ 250          |                            | <p>* Settings are made on the initial screen of AG-150A.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                         | BAC-HD150                            | 000, 201 ~ 250          |                            | <p>* Settings are made with setting tool of BM ADAPTER.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                         | LMAP02-E                             | 201 ~ 250               | <p><b>2</b><br/>Fixed</p>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

Note1: To set the address to "100", set it to "50"

Note2: Outdoor units OC, OS1 and OS2 in one refrigerant circuit system are automatically detected.

OC, OS1 and OS2 are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.

## 2. M-NET control

### 2-4-3. System examples

#### Factory setting

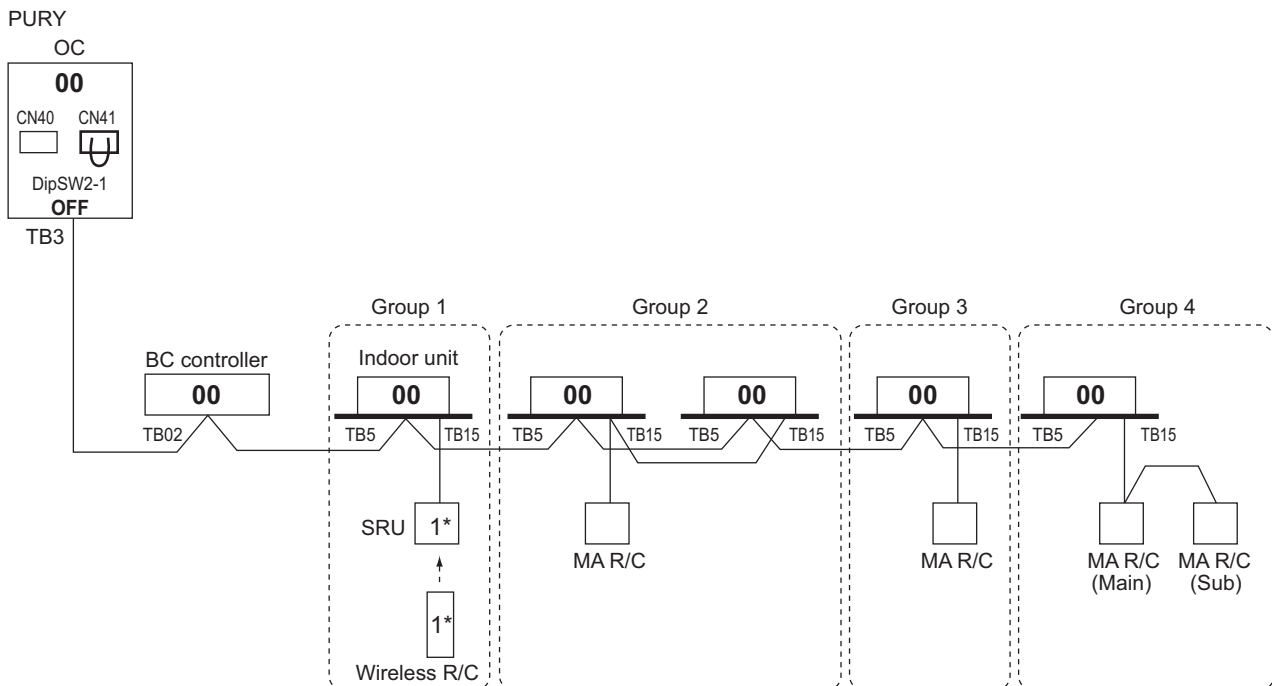
Original switch setting of the outdoors, indoors, controllers, LMAP and BM ADAPTER at shipment is as follows.

- Outdoor unit : Address: 00, CN41: U (Jumper), DipSW2-1: OFF
- Indoor unit : Address: 00
- BC controller : Address: 00
- ME remote controller : Address: 101
- LMAP : Address: 247, CN41: U (Jumper), DipSW1-2: OFF
- BM ADAPTER : Address: 00

#### Setting at the site

- DipSW2-1(Outdoor) : When the System Controller is used, all the Dip SW2-1 at the outdoor units should be set to "ON". \* Dip SW2-1 remains OFF when only LMAP02-E is used.
- DipSW4-6(BC controller) : Set DipSW 4-6 to ON at BC controller, in case of connected Indoor unit sized P100-P140 with 2 ports. It is also possible to connect Indoor unit sized P100-P140 with 1 port (set DipSW 4-6 to OFF).
- DipSW1-2(LMAP) : When the LMAP is used together with System Controller, DipSW1-2 at the LMAP should be set to "ON".
- CN40/CN41 : Change jumper from CN41 to CN 40 at outdoor control board will activate central transmission power supply to TB7;  
(Change jumper at only one outdoor unit when activating the transmission power supply without using a power supply unit.)  
Change jumper from CN41 to CN 40 at LMAP will activate transmission power supply to LMAP itself;  
Power supply unit is recommended to use for a system having more than 1 outdoor unit, because the central transmission power supply from TB7 of one of outdoor units is risking that the outdoor unit failure may let down the whole system controller system.

#### 2-4-3-1. MA remote controller, Single-refrigerant-system, No System Controller



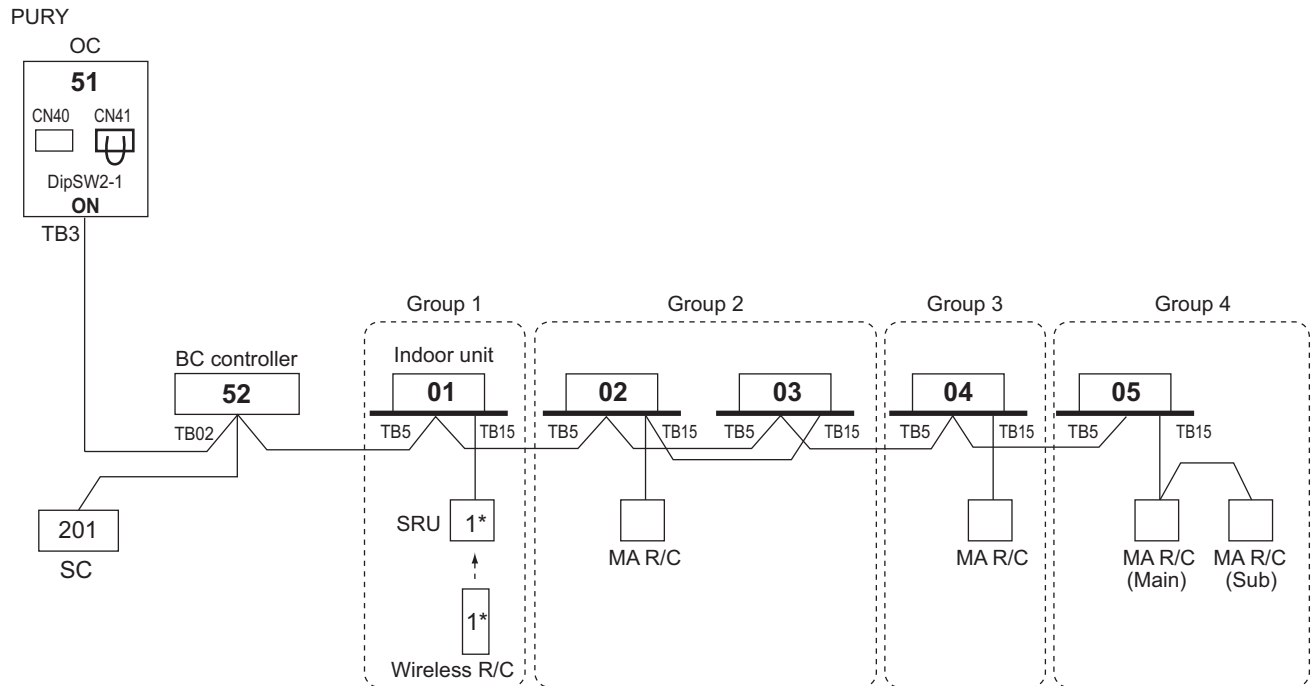
\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

#### NOTE:

1. No address setting is needed.
2. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at 2-3 "System configuration restrictions".
3. Indoor units should be set with a branch number.
4. Address setting is required if a sub BC controller is connected.

## 2. M-NET control

### 2-4-3-2. MA remote controller, Single-refrigerant-system, System Controller



\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*SC can be connected to TB3 side or TB7 side;

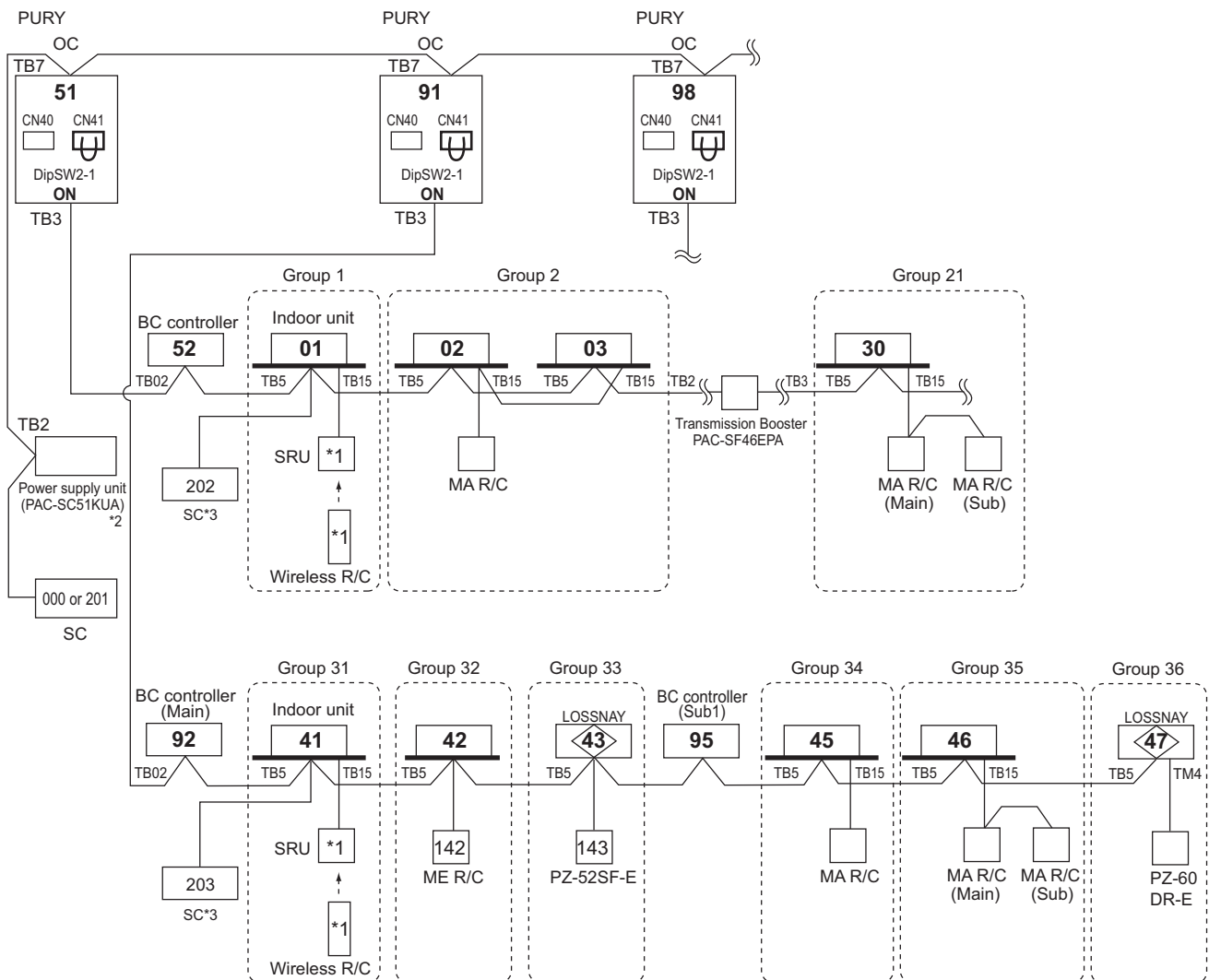
Should SC connected to TB7 side, change Jumper from CN41 to CN40 at the Outdoor unit module so as to supply power to the SC.

NOTE:

1. Address should be set to Indoor units and centralized controller.
2. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at **2-3 "System configuration restrictions"**.
3. Indoor units should be set with a branch number.

## 2. M-NET control

2-4-3-3. MA remote controller, Multi-refrigerant-system, System Controller at TB7/ TB3 side, Booster for long M-NET wiring



\*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*2 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System.

For AG-150A, 24VDC should be used with the PAC-SC51KUA.

\*3 When multiple system controllers are connected in the system, set the controller with more functions than others as a "main" controller and others as "sub".

Make the setting to only one of the system controllers for "prohibition of operation from local remote controller".

### NOTE:

1. Address should be set to Indoor units, LOSSNAY and system controller.

2. M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME remote controller consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to

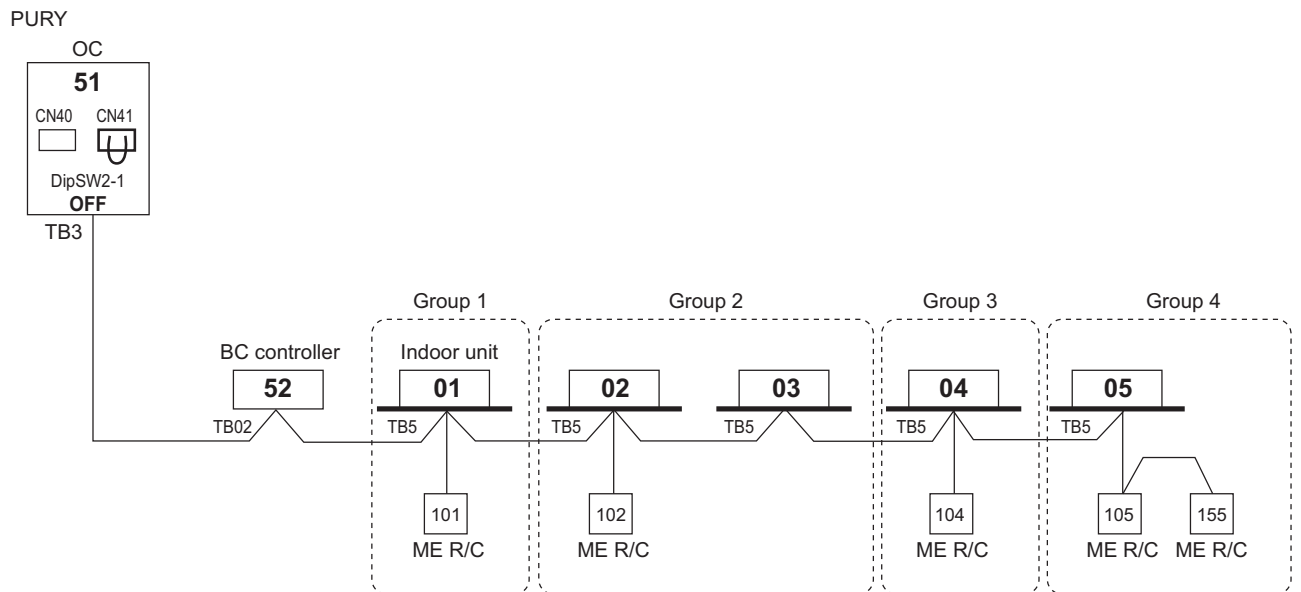
### 2-3 "System configuration restrictions".

3. Indoor units should be set with a branch number.

4. Assign an address to each of the sub BC controllers which equals the sum of the smallest address of the indoor units that are connected to each sub BC controller and 50.

## 2. M-NET control

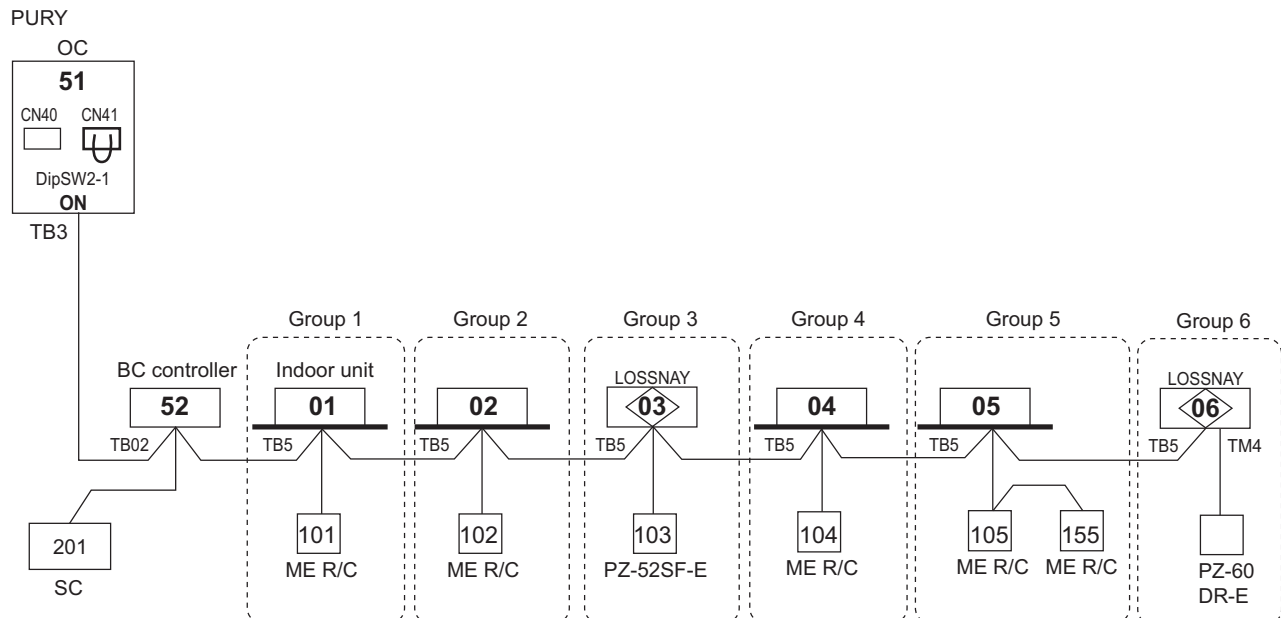
### 2-4-3-4. ME remote controller, Single-refrigerant-system, No system controller



**NOTE:**

1. Address should be set to Indoor units, system controller and ME remote controllers.
2. M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME RC consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to 2-3 "System configuration restrictions".
3. Indoor units should be set with a branch number.

### 2-4-3-5. ME remote controller, Single-refrigerant-system, System controller, LOSSNAY



\*SC can be connected to TB3 side or TB7 side;

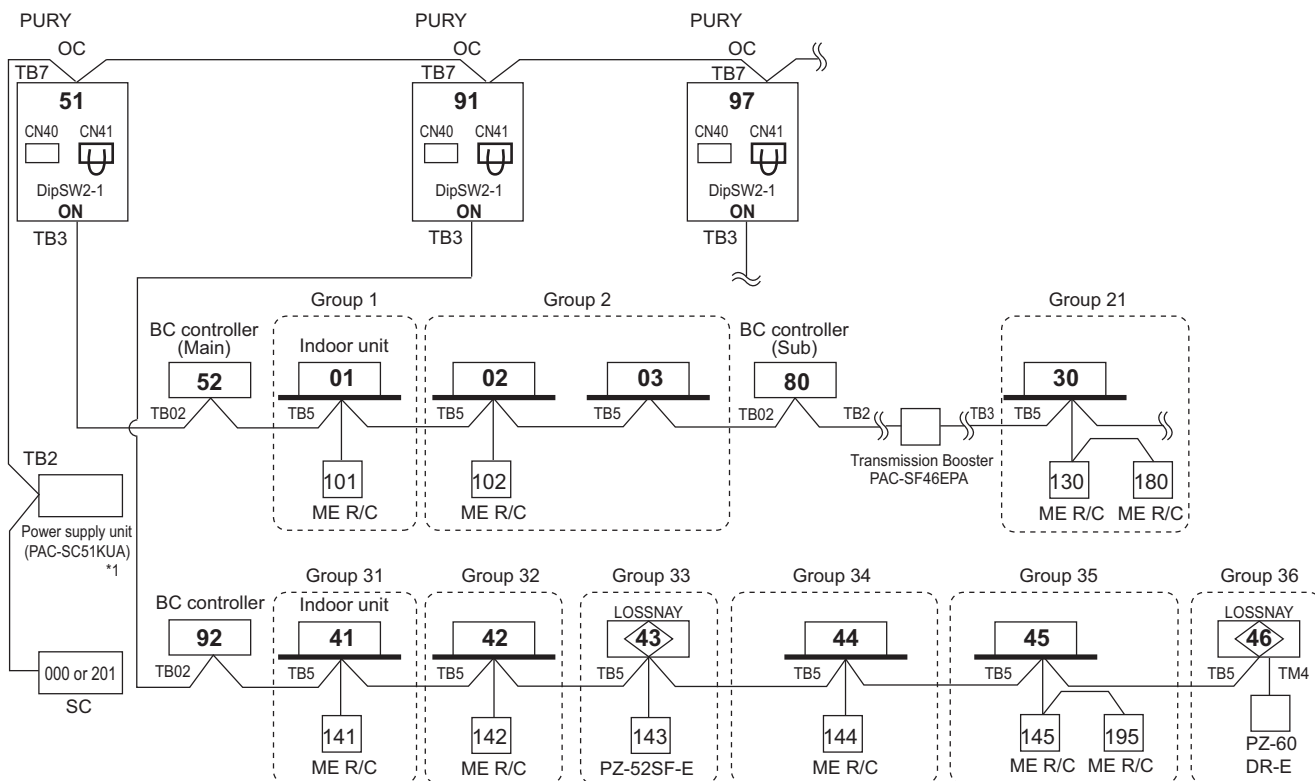
Should SC connected to TB7 side, change Jumper from CN41 to CN40 at the Outdoor unit module so as to supply power to the SC.

**NOTE:**

1. Address should be set to Indoor units, LOSSNAY centralized controller, ME remote controllers.
2. For a system having more than 32 indoor unit (P15-P140), confirm the need of Booster at 2-3 "System configuration restrictions".
3. Indoor units should be set with a branch number.

## 2. M-NET control

2-4-3-6. ME remote controller, Multi-refrigerant-system, System Controller at TB 7side, LOSSNAY, Booster for long M-NET wiring



\*1 System controller should connect to TB7 at Outdoor and use power supply unit together in Multi-Refrigerant-System.  
For AG-150A, 24VDC should be used with the PAC-SC51KUA.

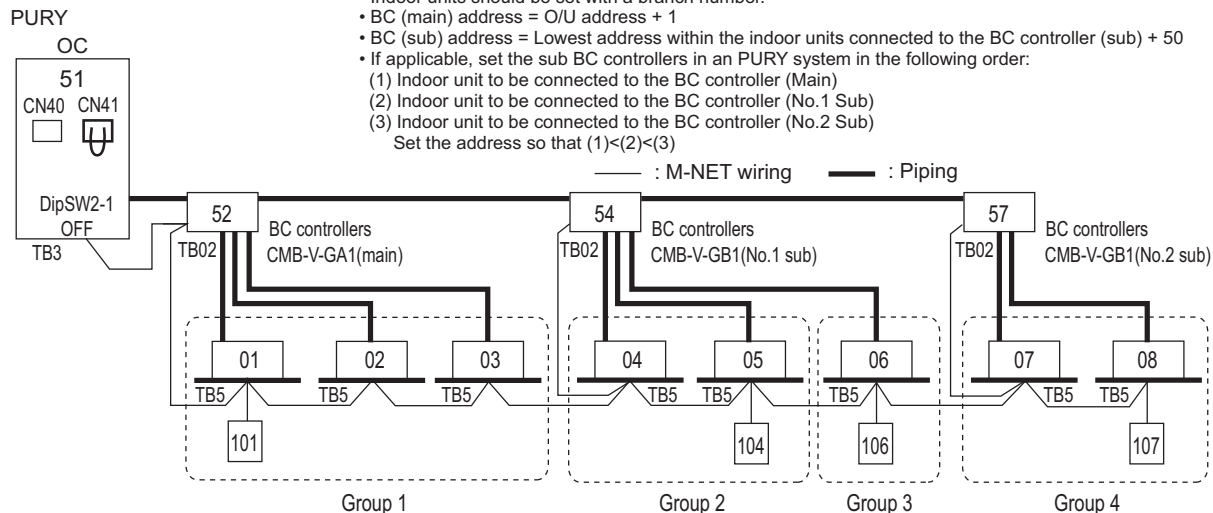
### NOTE:

- M-NET power is supplied by the Outdoor unit at TB3, while Indoor unit and ME RC consume the M-NET power for transmission use. The power balance is needed to consider for long M-NET wiring. Details refer to **2-3 "System configuration restrictions"**.
- Indoor units should be set with a branch number.
- Assign an address to each of the sub BC controllers which equals the sum of the smallest address of the indoor units that are connected to each sub BC controller and 50.  
When the address assigned to sub BC controller overlaps those of any other units including outdoor units (OC/OS) or main BC controller, sub BC controller will be given priority to have the address.

2-4-3-7. Example : BC, BC sub

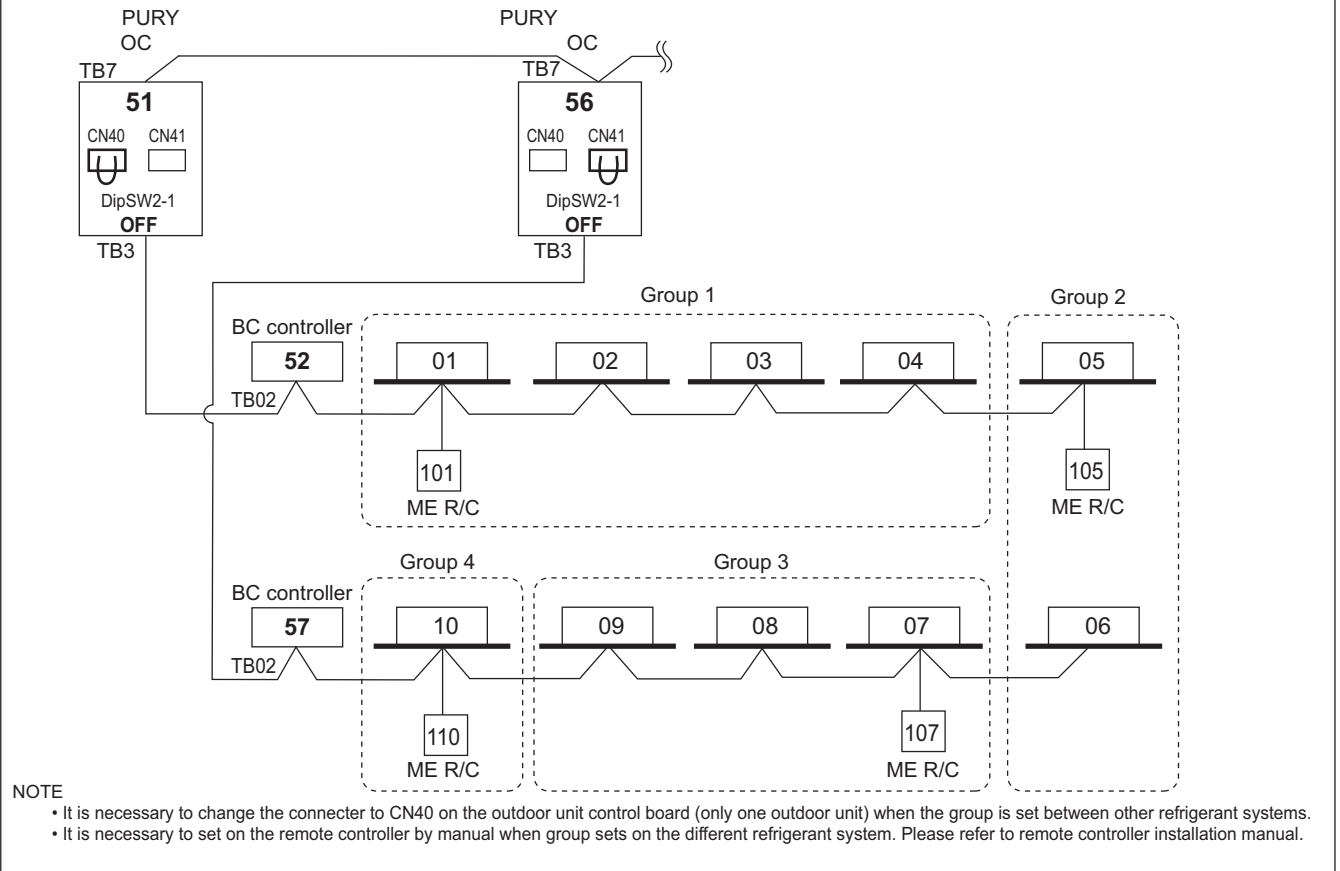
### NOTE

- Indoor units should be set with a branch number.
- BC (main) address = O/U address + 1
- BC (sub) address = Lowest address within the indoor units connected to the BC controller (sub) + 50
- If applicable, set the sub BC controllers in an PURY system in the following order:
  - Indoor unit to be connected to the BC controller (Main)
  - Indoor unit to be connected to the BC controller (No.1 Sub)
  - Indoor unit to be connected to the BC controller (No.2 Sub)
 Set the address so that (1)<(2)<(3)

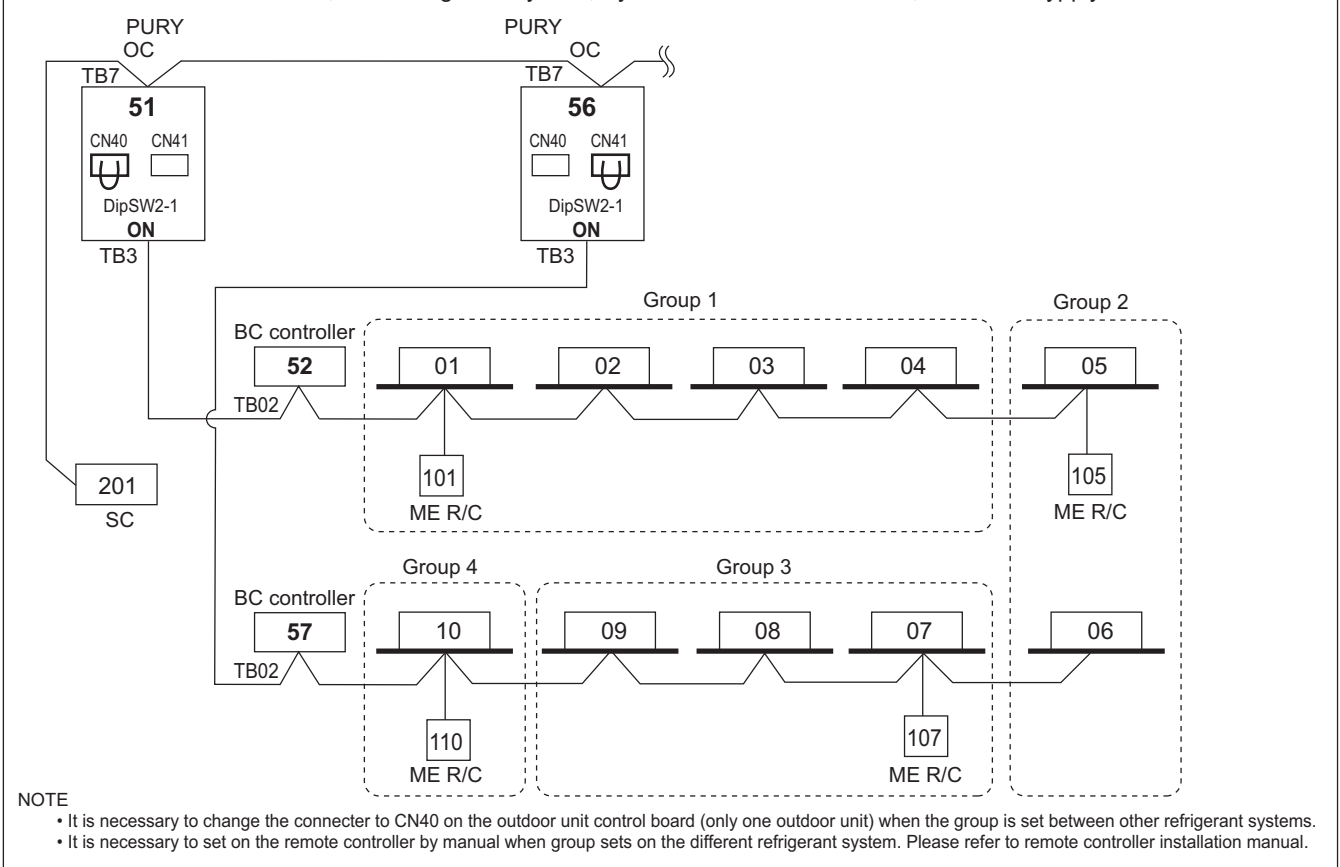


## 2. M-NET control

2-4-3-8. ME remote controller, Multi-refrigerant-system, No Power supply unit



2-4-3-9. ME remote controller , Multi-refrigerant-system, System Controller at TB7 side, No Power supply unit



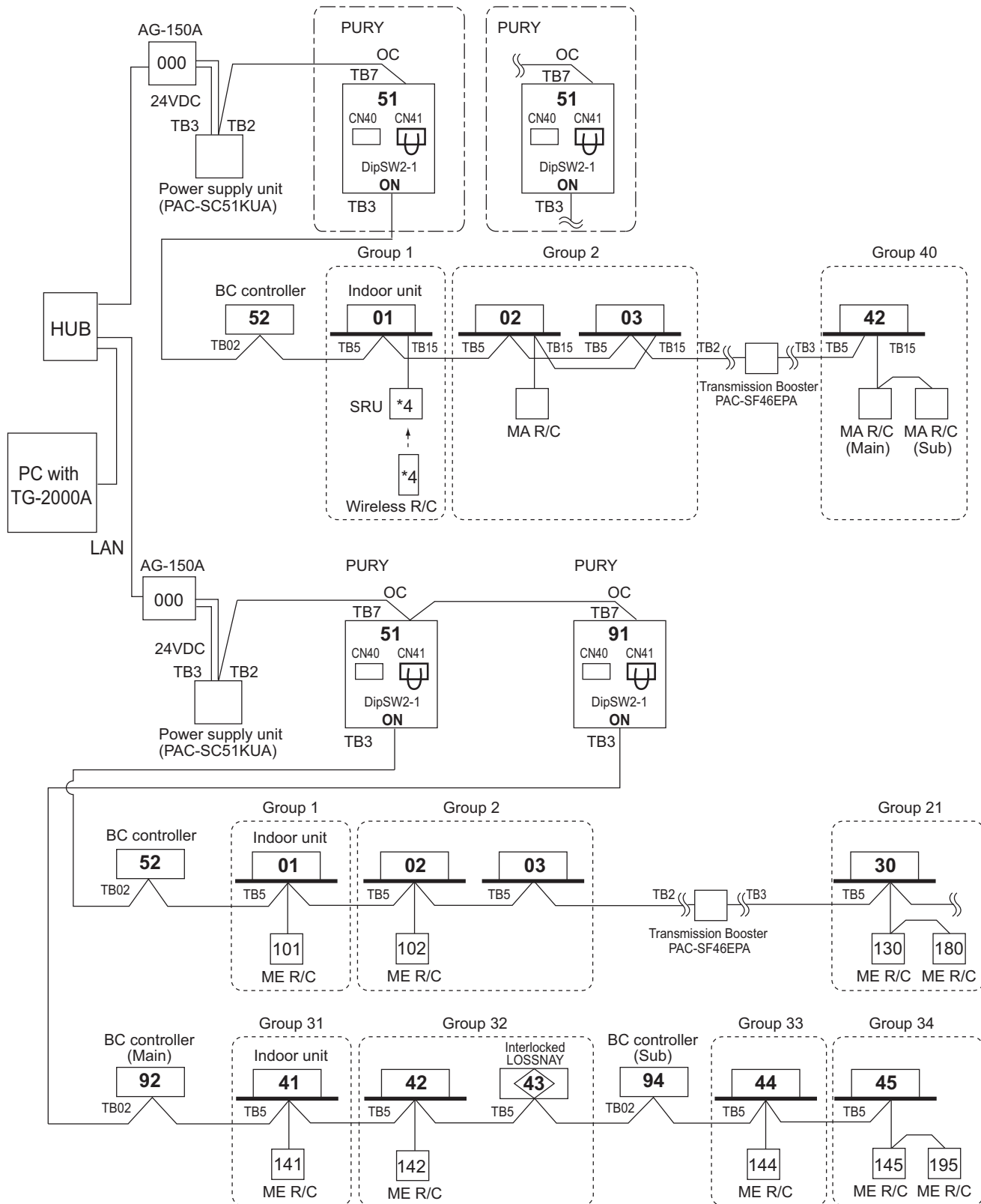
## 2. M-NET control

### 2-4-3-10. TG-2000A(\*1)+AG-150A(\*2)

AG-150A can control max. 50 indoor units;

TG-2000A can control max. 40 pieces of AG-150A;\*3

TG-2000A can control max. 2000 indoor units.



\*1 TG-2000A (Ver.5.5 or later) supports AG-150A (Ver.1series).

TG-2000A (Ver. 6.1) supports AG-150A (Ver. 2.1) connected with the expansion controller (EC).

\*2 AG-150A (Ver.1series) does not support the expansion controller (EC).

\*3 When AG-150A connected with the expansion controller (EC) is connected, the number of EC will be the maximum controllable number.

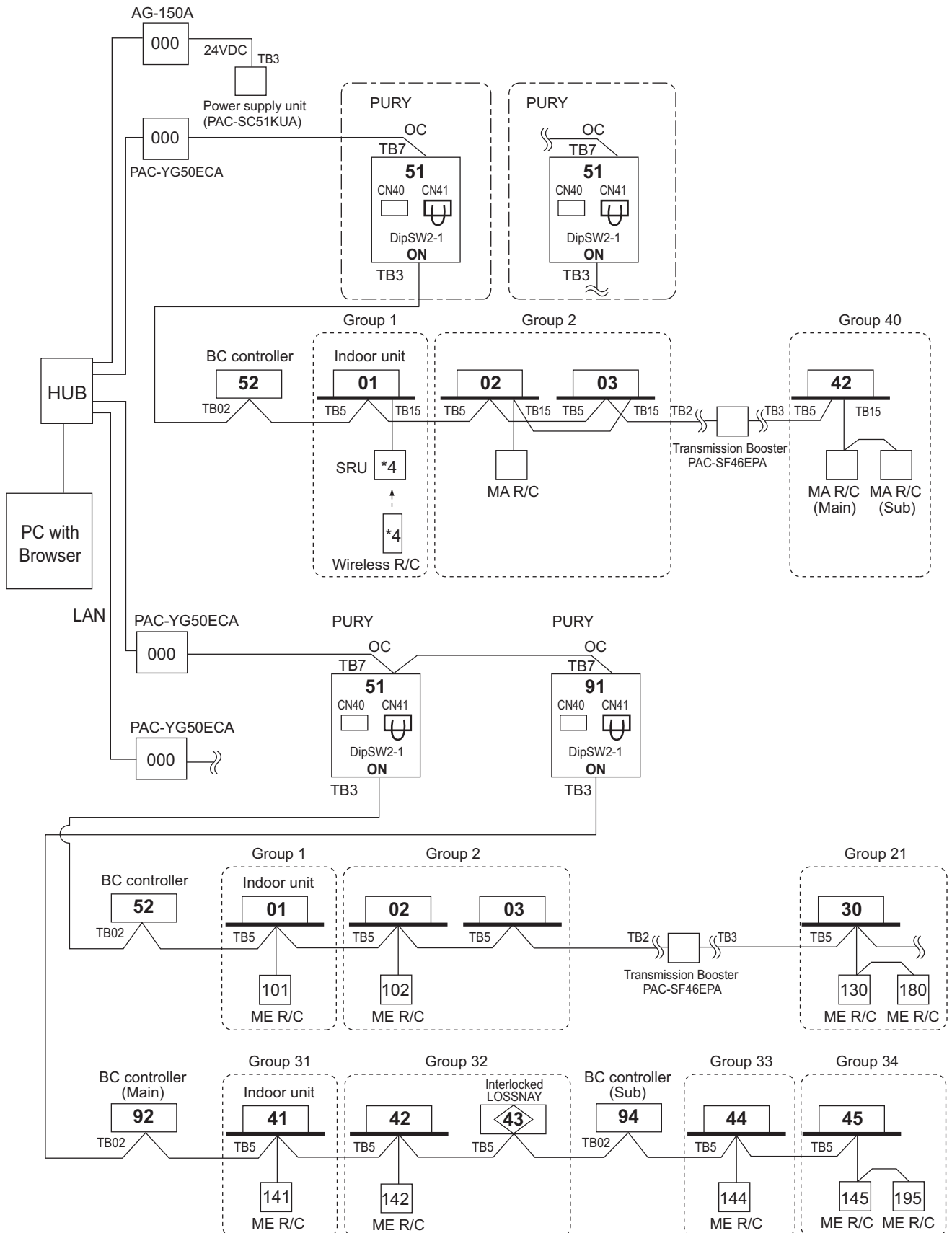
TG-2000A can control up to 40 pieces of EC or AG-150A not connected with EC.

\*4 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

## 2. M-NET control

#### 2-4-3-11. AG-150A+PAC-YG50ECA (Expansion controller)

AG-150A can control max. 150 indoor units/ via expansion controllers.



NOTE

- \*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.  
\*2 AG-150A (Ver.1series) does not support the expansion controller (EC).

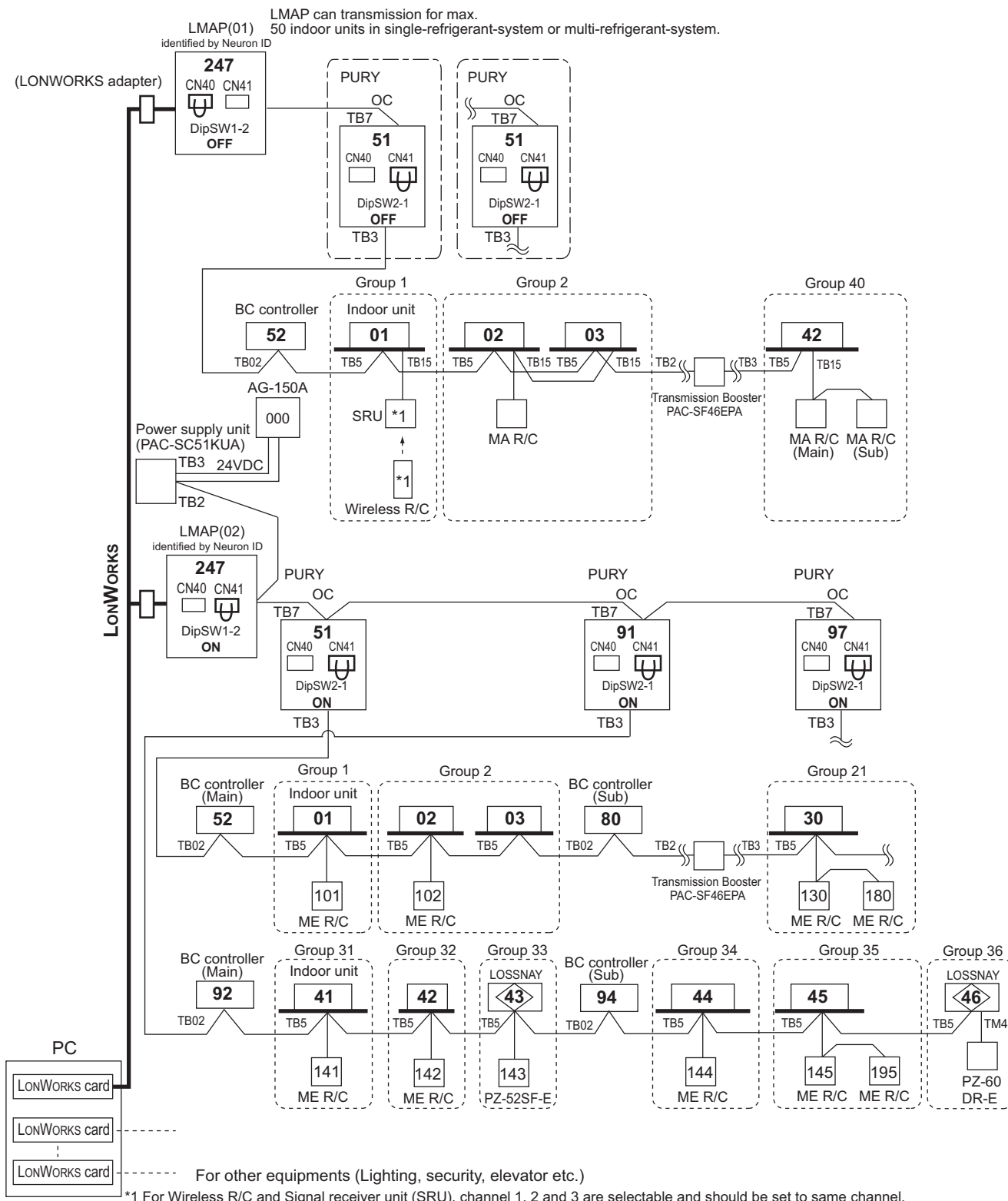
## 2. M-NET control

### 2-4-3-12. LMAP

LMAP can transmission for max. 50 indoor units;

If system controller (SC) is used, DipSW1-2 at LMAP and DipSW2-1 at Outdoor unit should set to "ON".

Change Jumper from CN41 to CN40 to activate power supply to LMAP itself for those LMAP connected without system controller (SC).

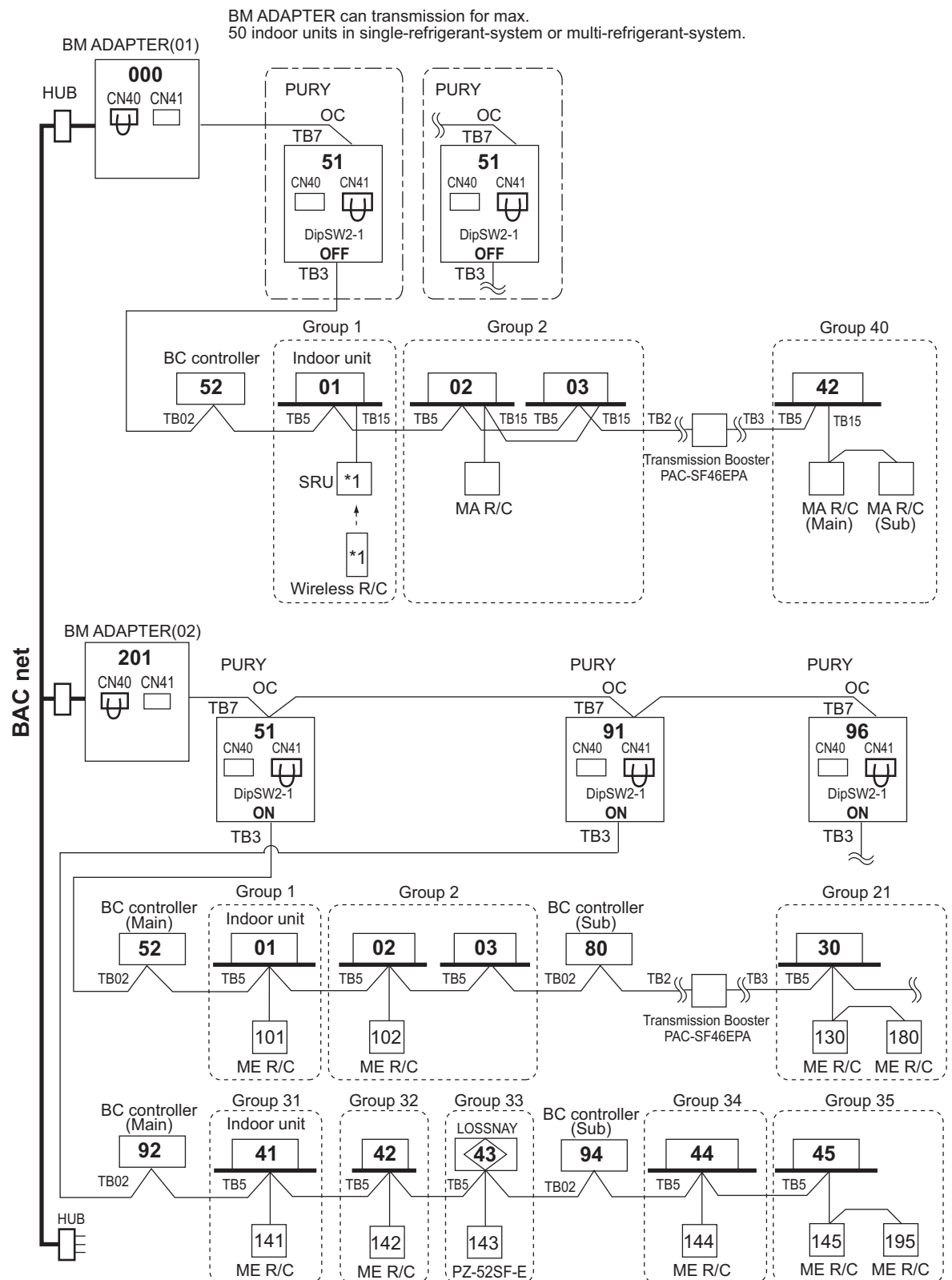


## 2. M-NET control

### 2-4-3-13. BM ADAPTER

BM ADAPTER can transmission for max. 50 indoor units;

Change Jumper from CN41 to CN40 to activate power supply to BM ADAPTER itself for those BM ADAPTER connected without the power supply unit.

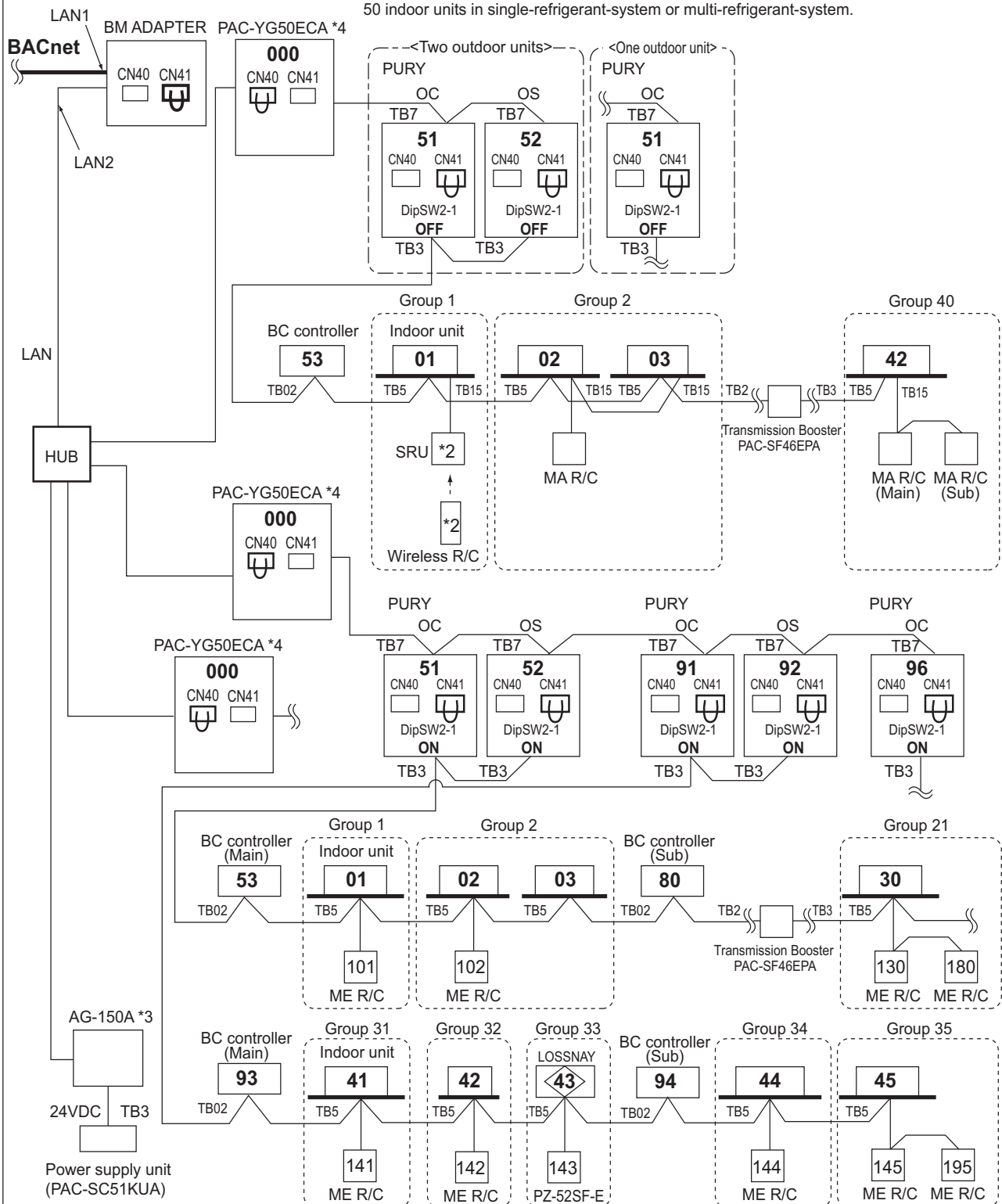


## 2. M-NET control

### 2-4-3-14. BM ADAPTER+PAC-YG50ECA (Expansion controller)

BM ADAPTER(\*1) can transmission for max. 150 indoor units/via expansion controllers (PAC-YG50ECA).

BM ADAPTER can transmission for max.  
50 indoor units in single-refrigerant-system or multi-refrigerant-system.



#### NOTE

•It is not necessary to connect the M-NET transmission line to the TB3 on BM ADAPTER.

•Leave the power jumper of BM ADAPTER connected to CN41.

•For other equipments (Lighting, security, elevator etc.)

\*1 BM ADAPTER (Ver.2.00 or later) supports the expansion controller.

\*2 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

\*3 AG-150A (Ver.2.30 or later) supports the BM ADAPTER.

\*4 PAC-YG50ECA (Ver.1.30 or later) supports the BM ADAPTER.

## 3. Piping Design

### 3-1. Piping Design

#### 3-1-1. IF 16 ports or less are in use, i.e., if only one BC controller is in use with no sub BC controller

Note1. No Header usable on PURY system.

Note2. Indoor unit sized P100-P250 should be connected to BC controller via Y shape joint CMY-R160-J1 ;

Note3. Indoor unit sized P100-P250 does NOT share BC controller ports with other Indoor units ;

Note4. As bents cause pressure loss on transportation of refrigerant, fewer bents design is better ;

Piping length needs to consider the actual length and equivalent length which bents are counted.

Equivalent piping length (m)=Actual piping length+"M" x Quantity of bent.

Note5. Set DIP-SW 4-6 to ON of BC controller, in case of connected Indoor unit sized P100-P140 with 2 ports.

Note6. It is also possible to connect Indoor unit sized P100-P140 with 1 port (set DIP-SW 4-6 to OFF).

However, the cooling capacity decreases a little (For details, refer to the chapter OUTDOOR UNITS, R2 SERIES, 6-4. Correction by port counts of the BC controller).

Note7. Individual indoor units grouped together to connect to the BC controller via one port cannot operate individually in heating and cooling modes at the same time. i.e., they must all function in either heating or cooling together.

Note8. Indoor capacity is described as its model size. For example, PEFY-P63VML-E, its capacity is P63.

Note9. Total down-stream Indoor capacity is the summary of the model size of Indoors down-stream.

For example, PEFY-P63VML-E + PEFY-P32VML-E : Total Indoor capacity = P63 + P32 = P95.

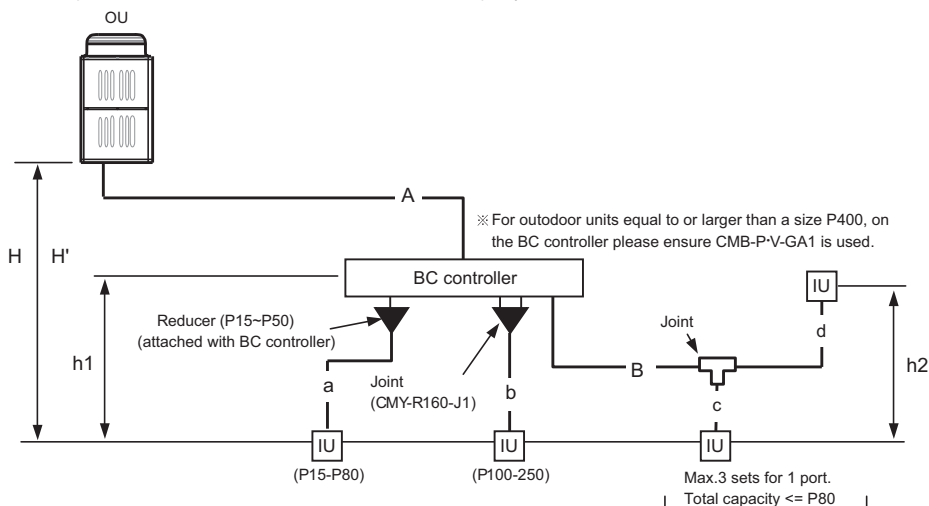


Fig. 3-1-1A Piping scheme

Table 3-1-1-1. Piping length limitation

| Item                                   | Piping in the figure | Max. length | Max. equivalent length (m) |
|----------------------------------------|----------------------|-------------|----------------------------|
| Total piping length                    | A+B+a+b+c+d          | 220 *1      |                            |
| Farthest IU from OU                    | A+B+d                | 100 (90) *2 | 125 (115)                  |
| Distance between OU and BC             | A                    | 70 (60) *2  |                            |
| Farthest IU from BC controller         | B+d                  | 30          |                            |
| Height between OU and IU (OU above IU) | H                    | 50          |                            |
| Height between OU and IU (OU under IU) | H'                   | 40          |                            |
| Height between IU and BC               | h1                   | 15 (10) *3  |                            |
| Height between IU and IU               | h2                   | 15 (10) *3  |                            |

OU : Outdoor Unit ; IU : Indoor Unit

\* 1 Do not exceed the amount of refrigerant to be charged written below.

PURY-RP200-300YJM-A :  $0.16 \times L_1 + 0.11 \times L_2 + 0.12 \times L_3 + 0.06 \times L_4 + 0.024 \times L_5 < 20$

L<sub>1</sub>: Total length of ø19.05 high pressure pipe (m)

L<sub>2</sub>: Total length of ø15.88 high pressure pipe (m)

L<sub>3</sub>: Total length of ø12.7 liquid pipe (m)

L<sub>4</sub>: Total length of ø9.52 liquid pipe (m)

L<sub>5</sub>: Total length of ø6.35 liquid pipe (m)

\* 2 The value in ( ) in the table is applied when indoor total capacity exceeds 130% of outdoor unit capacity.

\* 3 Distance of indoor unit size P200, P250 from BC must be less than 10 m, if any.

\* 4 ø25.4 for R22

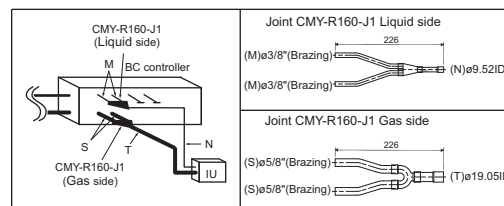


Fig. 3-1-1AA

Table3-1-1-2. Bent equivalent length "M"

| Outdoor Model   | M (m/bent) |
|-----------------|------------|
| PUHY-RP200YJM-A | 0.35       |
| PUHY-RP250YJM-A | 0.42       |
| PUHY-RP300YJM-A | 0.42       |

Table3-1-1-3. Piping "A" size selection rule (mm [in.])

| Outdoor Model | Pipe(High pressure) | Pipe(Low pressure) |
|---------------|---------------------|--------------------|
| RP200YJM      | ø19.05 [3/4"]       | ø28.58 [1-1/8"] *4 |
| RP250YJM      | ø19.05 [3/4"]       | ø28.58 [1-1/8"]    |
| RP300YJM      | ø19.05 [3/4"]       | ø28.58 [1-1/8"]    |

Table3-1-1-4. Piping "B" size selection rule (mm [in.])

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas)     |
|-----------------------------------|--------------|---------------|
| P80 or less                       | ø9.52 [3/8"] | ø15.88 [5/8"] |
| P81 or more                       | ø12.7 [1/2"] | ø19.05 [3/4"] |

Table3-1-1-5. Piping "a", "b", "c", "d" size selection rule (mm [in.])

| Indoor Unit size         | Pipe(Liquid) | Pipe(Gas)                     |
|--------------------------|--------------|-------------------------------|
| P15 to P40, GUF-50RD(H)  | ø6.35 [1/4"] | ø12.70 [1/2"]                 |
| P50 to P80, GUF-100RD(H) | ø9.52 [3/8"] | ø15.88 [5/8"]                 |
| P100 to P140             | ø9.52 [3/8"] | ø19.05 [3/4"]                 |
| P200                     | ø12.7 [1/2"] | ø25.4 [1"] or ø28.58 [1-1/8"] |
| P250                     | ø12.7 [1/2"] | ø28.58 [1-1/8"]               |

## 3. Piping Design

### 3-1-2. IF more than 16 ports are in use, or if there is more than one BC controller in use for one outdoor unit

- Note1. No Header usable on PURY system.  
 Note2. Indoor unit sized P100-P250 should be connected to BC controller via Y shape joint CMY-R160-J1 ;  
 Note3. Indoor unit sized P100-P250 does NOT share BC controller ports with other Indoor units ;  
 Note4. As bents cause pressure loss on transportation of refrigerant, fewer bents design is better ;  
 Piping length needs to consider the actual length and equivalent length which bents are counted.  
 Equivalent piping length (m)=Actual piping length+M" x Quantity of bent.  
 Note5. Set DIP-SW 4-6 to ON of BC controller, in case of connected indoor unit sized P100-P140 with 2 ports.  
 Note6. It is also possible to connect indoor unit sized P100-P140 with 1 port (set DIP-SW 4-6 to OFF).  
 However, the cooling capacity decreases a little (For details, refer to the chapter OUTDOOR UNITS, R2 SERIES, 6-4. Correction by port counts of the BC controller).  
 Note7. Individual indoor units grouped together to connect to the BC controller via one port cannot operate individually in heating and cooling modes at the same time. I.e., they must all function in either heating or cooling together.  
 Note8. For sub BC controller CMB-P-V-GB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that of a P350 unit.  
 For sub BC controller CMB-P1016V-HB1 the connectable indoor unit capacities may sum to equal that of a P350 unit or less. However, if two sub controllers are used the TOTAL sum of connectable units connected to BOTH sub controllers must also not exceed that of a P450 unit.  
 Note9. Indoor capacity is described as its model size. For example, PEFY-P63VML-E, its capacity is P63.  
 Note10. Total down-stream Indoor capacity is the summary of the model size of Indoors down-stream.  
 For example, PEFY-P63VML-E + PEFY-P32VML-E : Total Indoor capacity = P63 + P32 = P95.

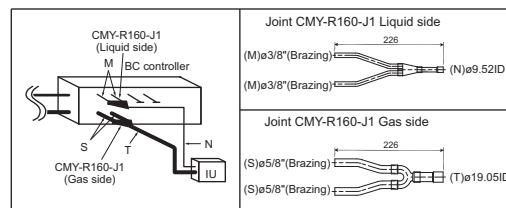


Fig. 3-1-2AA

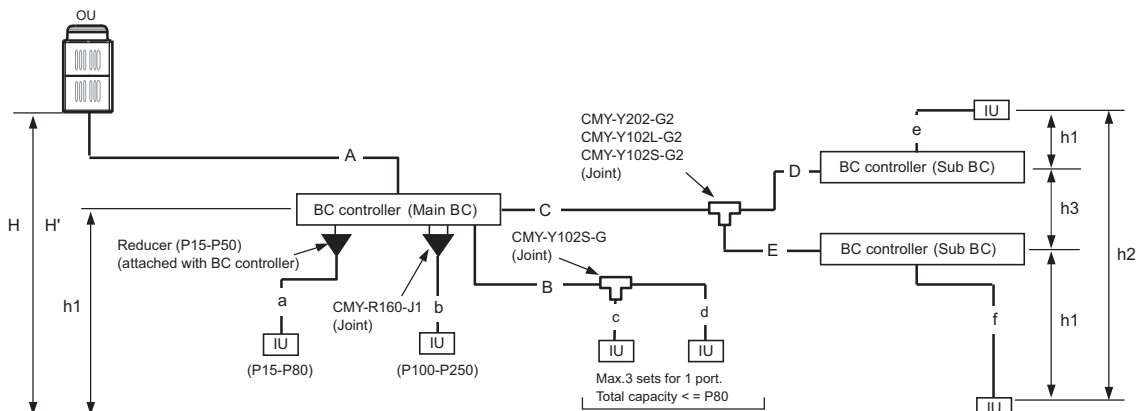


Fig. 3-1-2B Piping scheme

OU : Outdoor unit, IU : Indoor unit

Table 3-1-2-1. Piping length limitation

| Item                                       | Piping in the figure | Max. length | Max. equivalent length |
|--------------------------------------------|----------------------|-------------|------------------------|
| Total piping length                        | A+B+a+b+c+d          | 220 *1      |                        |
| Farthest IU from OU                        | A+B+d                | 100 (90) *2 | 125 (115)              |
| Distance between OU and BC                 | A                    | 70 (60) *2  |                        |
| Farthest IU from BC controller             | B+d                  | 30          |                        |
| Height between OU and IU (OU above IU)     | H                    | 50          |                        |
| Height between OU and IU (OU under IU)     | H'                   | 40          |                        |
| Height between IU and BC                   | h1                   | 15 (10) *3  |                        |
| Height between IU and IU                   | h2                   | 15 (10) *3  |                        |
| Height between BC(Main or Sub) and BC(Sub) | h3                   | 15 (10) *3  |                        |

OU : Outdoor Unit ; IU : Indoor Unit

- \* 1 Do not exceed the amount of refrigerant to be charged written below.  
 PURY-RP200-300YJM-A :  $0.16 \times L_1 + 0.11 \times L_2 + 0.12 \times L_3 + 0.06 \times L_4 + 0.024 \times L_5 < 20$

L<sub>1</sub>: Total length of ø19.05 high pressure pipe (m)

L<sub>2</sub>: Total length of ø15.88 high pressure pipe (m)

L<sub>3</sub>: Total length of ø12.7 liquid pipe (m)

L<sub>4</sub>: Total length of ø9.52 liquid pipe (m)

L<sub>5</sub>: Total length of ø6.35 liquid pipe (m)

- \* 2 The value in ( ) in the table is applied when indoor total capacity exceeds 130% of outdoor unit capacity.  
 \* 3 Distance of indoor unit size P200, P250 from BC must be less than 10 m, if any.

- \* 4 ø25.4 for R22

Table3-1-2-2. Bent equivalent length "M"

| Outdoor Model   | M (m/bent) |
|-----------------|------------|
| PUHY-RP200YJM-A | 0.35       |
| PUHY-RP250YJM-A | 0.42       |
| PUHY-RP300YJM-A | 0.42       |

Table3-1-2-3. Piping "A" size selection rule (mm [in.])

| Outdoor Model | Pipe(High pressure) | Pipe(Low pressure) |
|---------------|---------------------|--------------------|
| RP200YJM      | ø19.05 [3/4"]       | ø28.58 [1-1/8"] *4 |
| RP250YJM      | ø19.05 [3/4"]       | ø28.58 [1-1/8"]    |
| RP300YJM      | ø19.05 [3/4"]       | ø28.58 [1-1/8"]    |

Table3-1-2-4. Piping "B" size selection rule (mm [in.])

| Total down-stream Indoor capacity | Pipe(Liquid) | Pipe(Gas)     |
|-----------------------------------|--------------|---------------|
| P80 or less                       | ø9.52 [3/8"] | ø15.88 [5/8"] |
| P81 or more                       | ø12.7 [1/2"] | ø19.05 [3/4"] |

Table3-1-2-5. Piping "C", "D", "E" size selection rule (mm [in.])

| Total down-stream Indoor capacity | Pipe(Liquid)  | Pipe(HP Gas)  | Pipe(LP Gas)    |
|-----------------------------------|---------------|---------------|-----------------|
| P200 or less                      | ø9.52 [3/8"]  | ø15.88 [5/8"] | ø19.05 [3/4"]   |
| P201 to P300                      | ø9.52 [3/8"]  | ø19.05 [3/4"] | ø22.20 [7/8"]   |
| P301 to P350                      | ø12.70 [1/2"] | ø19.05 [3/4"] | ø28.58 [1-1/8"] |
| P351 to P400                      | ø12.70 [1/2"] | ø22.20 [7/8"] | ø28.58 [1-1/8"] |

HP : High pressure, LP:Low pressure

Table3-1-2-6. Piping "a", "b", "c", "d" size selection rule (mm [in.])

| Indoor Unit size         | Pipe(Liquid) | Pipe(Gas)                     |
|--------------------------|--------------|-------------------------------|
| P15 to P40, GUF-50RD(H)  | ø6.35 [1/4"] | ø12.70 [1/2"]                 |
| P50 to P80, GUF-100RD(H) | ø9.52 [3/8"] | ø15.88 [5/8"]                 |
| P100 to P140             | ø9.52 [3/8"] | ø19.05 [3/4"]                 |
| P200                     | ø12.7 [1/2"] | ø25.4 [1"] or ø28.58 [1-1/8"] |
| P250                     | ø12.7 [1/2"] | ø28.58 [1-1/8"]               |

### 3. Piping Design

#### 3-1-3. Pipe diameter compatibility table

|   |                                                                   |
|---|-------------------------------------------------------------------|
| ○ | Standard                                                          |
| ● | Usable (Unit performance will be affected.)                       |
| ○ | Usable (Vertical separation between OU and IU to be 20 m or less) |
| ▲ | Usable (Piping length limitation will apply.)                     |
| △ | Usable (Refrigerant charge amount limit will apply.)              |
| × | Not use                                                           |

##### (1) Main pipe

| Outdoor model |        | 200 | 250 | 300 |
|---------------|--------|-----|-----|-----|
| Low pressure  | ø15.88 | ×   | ×   | ×   |
|               | ø19.05 | ●   | ×   | ×   |
|               | ø22.2  | ●   | ●   | ●   |
|               | ø25.4  | ●   | ●   | ●   |
|               | ø28.58 | ○   | ○   | ○   |
|               | ø34.93 | ×   | ×   | ×   |
| High pressure | ø41.28 | ×   | ×   | ×   |
|               | ø9.52  | ×   | ×   | ×   |
|               | ø12.7  | ×   | ×   | ×   |
|               | ø15.88 | ▲   | ×   | ×   |
|               | ø19.05 | ○   | ○   | ○   |

##### (2) Indoor pipe

| Indoor model |        | 15 | 20 | 25 | 32 | 40 | 50                    | 63                    | 71 | 80 | 100 | 125 |
|--------------|--------|----|----|----|----|----|-----------------------|-----------------------|----|----|-----|-----|
| Liquid       | ø6.35  | ○  | ○  | ○  | ○  | ○  | ▲<br>(30m or shorter) | ▲<br>(20m or shorter) | ×  | ×  | ×   | ×   |
|              | ø9.52  | △  | △  | △  | △  | △  | ○                     | ○                     | ○  | ○  | ○   | ○   |
|              | ø12.7  | △  | △  | △  | △  | △  | △                     | △                     | △  | △  | △   | △   |
|              | ø19.05 | △  | △  | △  | △  | △  | △                     | △                     | △  | △  | △   | △   |
| Gas          | ø12.7  | ○  | ○  | ○  | ○  | ○  | ●                     | ×                     | ×  | ×  | ×   | ×   |
|              | ø15.88 | ○  | ○  | ○  | ○  | ○  | ○                     | ○                     | ○  | ○  | ●   | ●   |
|              | ø19.05 | ×  | ×  | ×  | ×  | ×  | ○                     | ○                     | ○  | ○  | ○   | ○   |
|              | ø22.2  | ×  | ×  | ×  | ×  | ×  | ×                     | ×                     | ×  | ×  | ○   | ○   |
|              | ø25.4  | ×  | ×  | ×  | ×  | ×  | ×                     | ×                     | ×  | ×  | ×   | ×   |
|              | ø28.58 | ×  | ×  | ×  | ×  | ×  | ×                     | ×                     | ×  | ×  | ×   | ×   |

| Indoor model |        | 140 | 200                   | 250                   |
|--------------|--------|-----|-----------------------|-----------------------|
| Liquid       | ø6.35  | ×   | ×                     | ×                     |
|              | ø9.52  | ○   | ▲<br>(25m or shorter) | ▲<br>(15m or shorter) |
|              | ø12.7  | △   | ○                     | ○                     |
|              | ø19.05 | △   | △                     | △                     |
| Gas          | ø12.7  | ×   | ×                     | ×                     |
|              | ø15.88 | ●   | ×                     | ×                     |
|              | ø19.05 | ○   | ●                     | ×                     |
|              | ø22.2  | ○   | ●                     | ●                     |
|              | ø25.4  | ×   | ○                     | ●                     |
|              | ø28.58 | ×   | ○                     | ○                     |

##### Note

- 1) The △ in the table indicates that the existing piping system can be reused if the total amount of refrigerant charge in the existing system is less than the specified amount calculated by using the following formulas:

$$0.16 \times L1 + 0.11 \times L2 + 0.12 \times L3 + 0.06 \times L4 + 0.024 \times L5 < 20$$

L1 : Total length of ø19.05 high pressure pipe(m)

L2 : Total length of ø15.88 high pressure pipe(m)

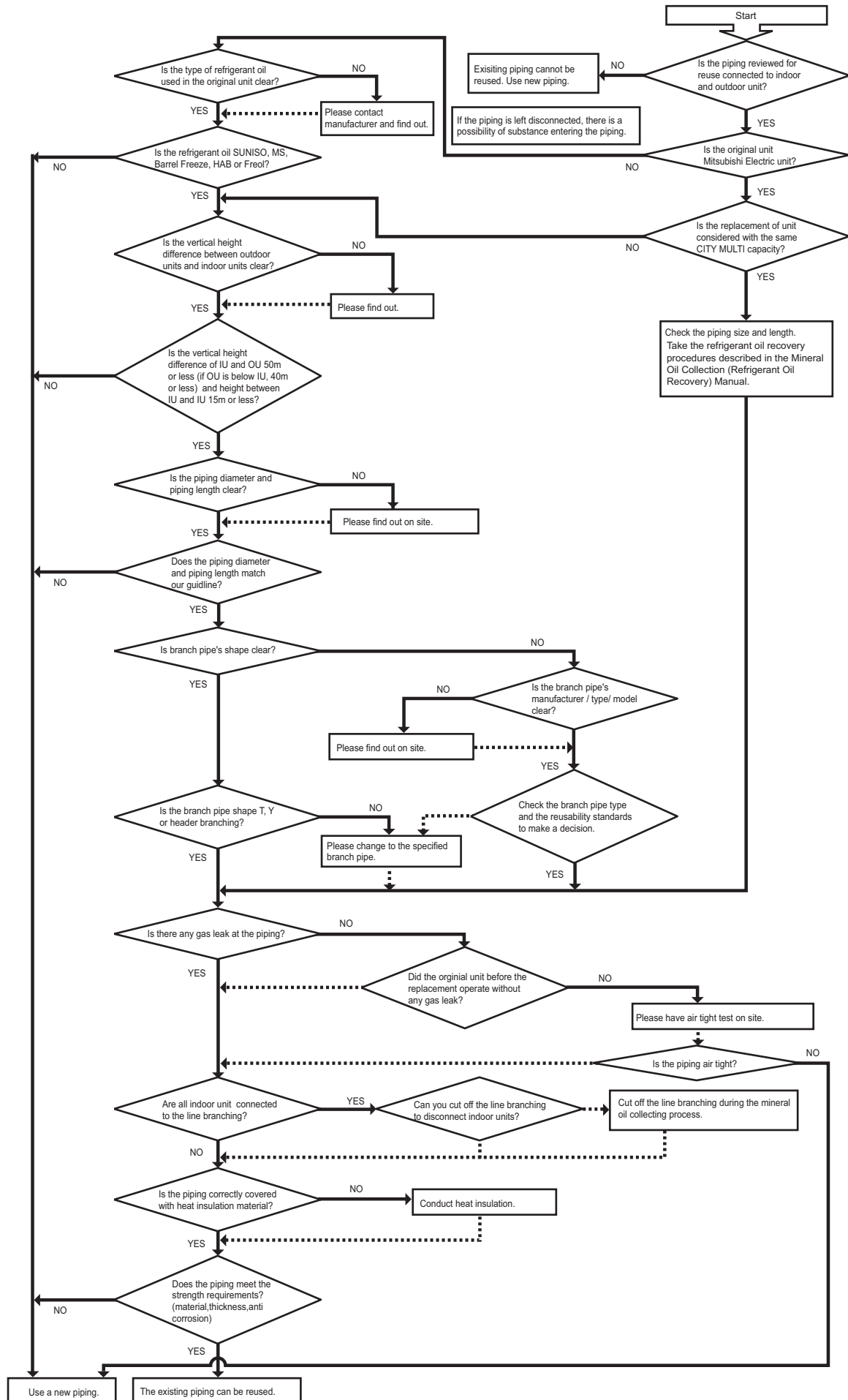
L3 : Total length of ø12.7 liquid pipe(m)

L4 : Total length of ø9.52 liquid pipe(m)

L5 : Total length of ø6.35 liquid pipe(m)

### 3. Piping Design

#### 3-1-4. Flow chart to check if the existing piping can be reused





## 4. Outdoor Installation

---

### 4-1. Requirement on installation site

1. No direct thermal radiation to the unit.
2. No possibility of annoying the neighbors by the sound of the unit.  
Valves and refrigerant flow on the outdoor unit may generate noise.
3. Avoid the sites where strong winds blow.
4. With strength to bear the weight of the unit.
5. Drain flow from the unit is cared at heating mode.
6. Enough space for installation and service as shown at 4-2.
7. Avoid the sites where acidic solutions or chemical sprays (sulfur series) are used frequently.
8. The unit should be secure from combustible gas, oil, steam, chemical gas like acidic solution, sulfur gas and so on.

## 4. Outdoor Installation

### 4-2. Spacing

#### In case of single installation

- Secure enough space around the unit as shown in the figure.

<A> : Top view

(A) : Front

(C) : Back

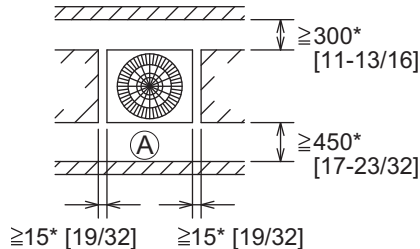
<B> : Side view

(B) : Unit height

(D) : Air outlet guide (Procured at the site)

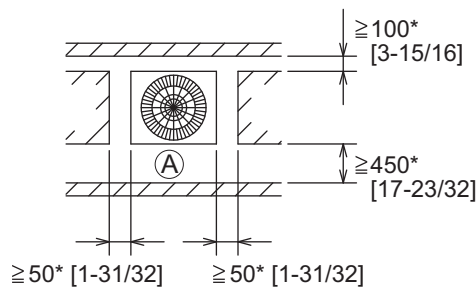
<C> : When there is little space up to an obstruction

#### (1) If the distance is 300 mm [11-13/16 in.] or more between the rear side and the wall



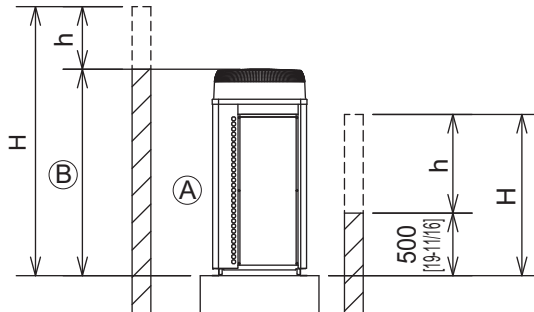
<A>

#### (2) If the distance is 100 mm [3-15/16 in.] or more between the rear side and the wall



<A>

#### (3) If the wall height (H) of the front, rear or side exceeds the wall height restriction



<B>

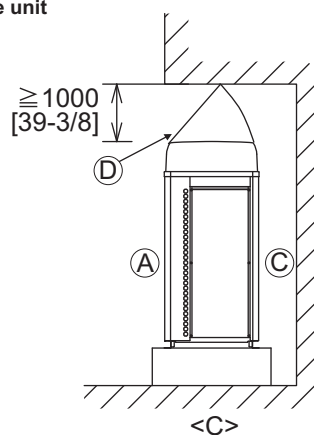
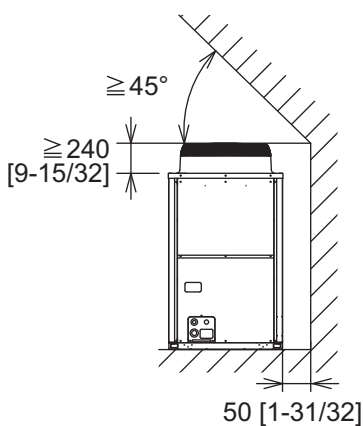
- When the height of the walls on the front, back or on the sides <H> exceeds the wall height limit as defined below, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.

<Wall height limit> Front: Up to the unit height

Back: Up to 500mm [19-11/16 in.] from the unit bottom

Side: Up to the unit height

#### (4) If there are obstacles at the upper part of the unit



<C>

(Unit : mm [in.])

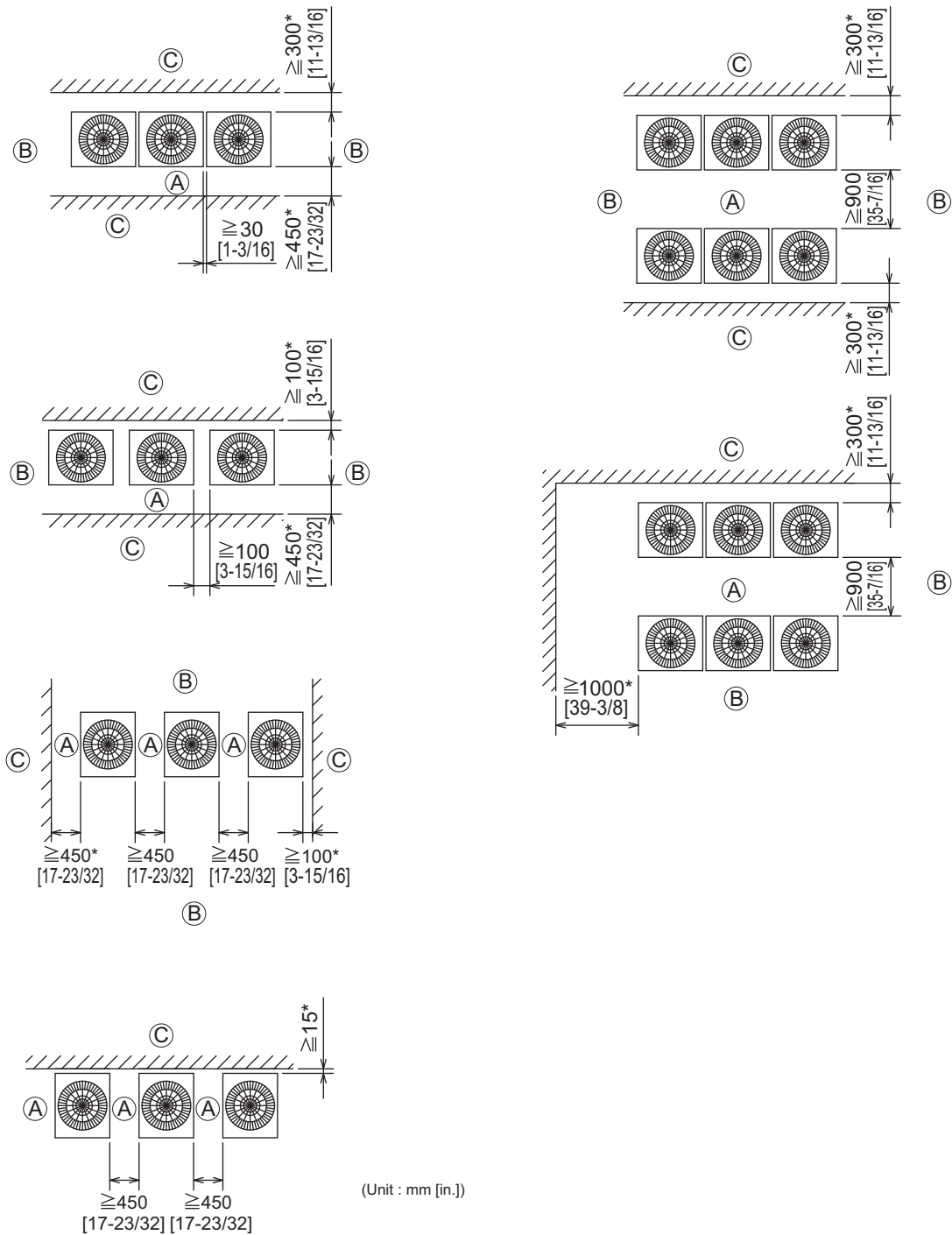
## 4. Outdoor Installation

### In case of collective installation and continuous installation

(A) : Front (C) : Wall height (H)

(B) : Must be open

- When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and passageways between groups of units as shown in the figures.
- At least two sides must be left open.
- As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.
- If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/passage space for each six units.

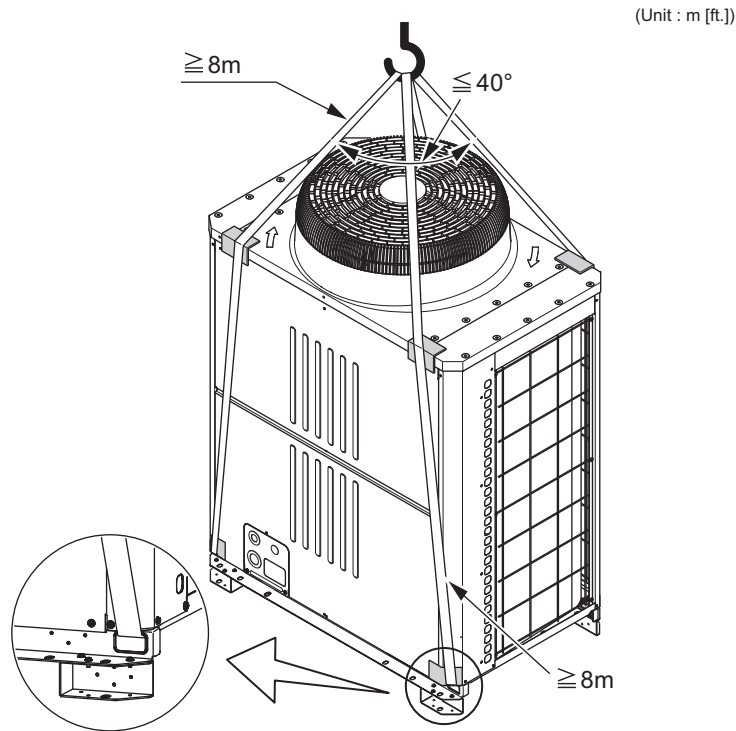


## 4. Outdoor Installation

### 4-3. Piping direction

#### 4-3-1. Lifting method

- When lifting the unit with ropes, run the ropes under the unit and use the lifting hole.
- Support the unit at four points with two ropes, and avoid giving mechanical shock.
- Suspension rope angle must be  $40^\circ$  or less, so as to avoid compressing fan guard.
- Use two ropes, each at least 8m [26 ft.] in length
- Use ropes strong enough to support the weight of the unit.
- Always suspend the unit from four corners. (It is dangerous to suspend a unit from two corners and must not be attempted.)
- Use protective pads to keep the ropes from scratching the panels on the unit.



#### CAUTION

**Exercise caution when transporting products.**

- Products weighing more than 20 kg [45 LBS] should not be carried alone.
- Do not carry the product by the PP bands.
- To avoid the risk of injury, do not touch the heat exchanger fins.
- Plastic bags may pose a risk of choking hazard to children. Tear plastic bags into pieces before disposing of them.
- When lifting and transporting outdoor units with ropes, run the ropes through lifting hole at the unit base. Securely fix the unit so that the ropes will not slide off, and always lift the unit at four points to prevent the unit from falling.

## 4. Outdoor Installation

### 4-3-2. Installation

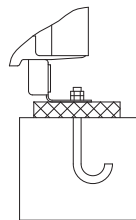
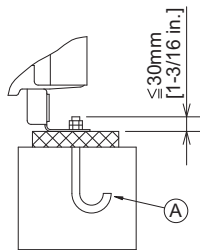
- Secure the unit with anchor bolts as shown in the figure below so that the unit will not topple over with strong wind or during an earthquake.
- Install the unit on a durable base made of such materials as concrete or angle steel.
- Take appropriate anti-vibration measures (e.g., vibration damper pad, vibration isolation base) to keep vibrations and noise from being transmitted from the unit through walls and floors.
- When using a rubber cushion, install it so that the cushion covers the entire width of the unit leg.
- Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure below is securely supported.
- Install the anchor bolt in such a way that the top end of the anchor bolt do not stick out more than 30 mm [1-3/16 in.].
- This unit is not designed to be anchored with post-installation-type anchor bolts, although by adding fixing brackets anchoring with such type of anchor bolts becomes possible.

#### WARNING

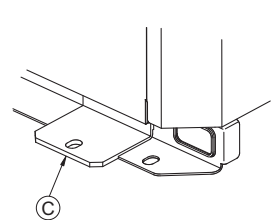
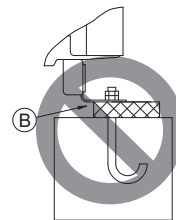
Properly install the unit on a surface that can withstand the weight of the unit. Unit installed on an unstable surface may fall and cause injury.

- (A): M10 anchor bolt procured at the site.  
 (B): Corner is not seated.  
 (C): Fixing bracket for hole-in anchor bolt (3 locations to fix with screws).  
 (D): Detachable leg

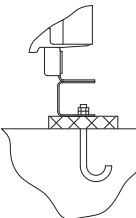
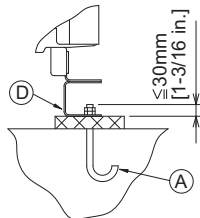
<Without detachable leg>



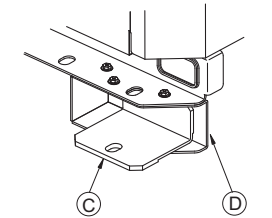
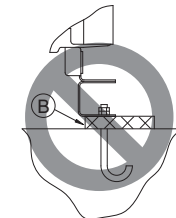
Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure is securely supported. The brackets may bend if they are not securely supported.



<With detachable leg>



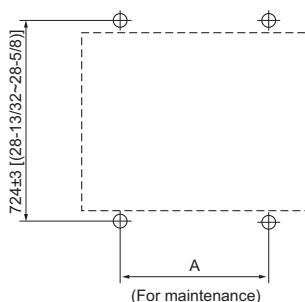
Install the unit in such a way that the corner of the angle bracket at the base of the unit shown in the figure is securely supported. The brackets may bend if they are not securely supported.



Take into consideration the durability of the base, water drainage route (Drain water is discharged from outdoor units during operation.), piping route, and wiring route when performing foundation work.

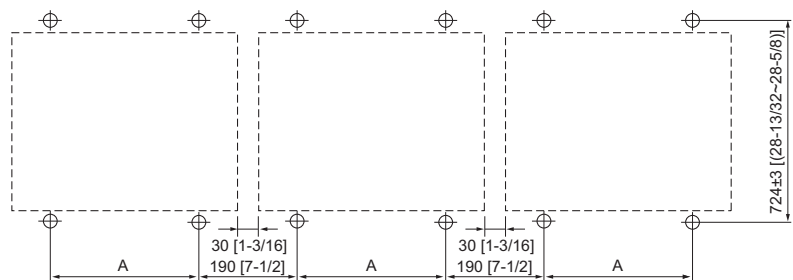
### 4-3-3. Anchor bolt positions

#### • Individual installation



#### • Collective installation

(Unit : mm [in.])



Leave a minimum of 30 mm [1-3/16 in.] between units.

|      |                                    |
|------|------------------------------------|
| PURY | RP200, 250, 300                    |
| A    | 1060±2 [41-3/4(41-21/32~41-13/16)] |

## 4. Outdoor Installation

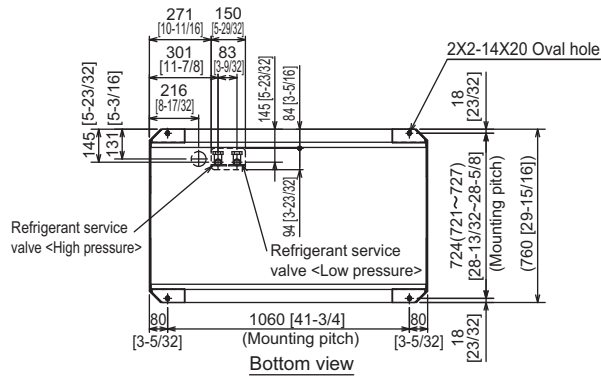
### 4-3-4. Installation

When the pipes and/or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.

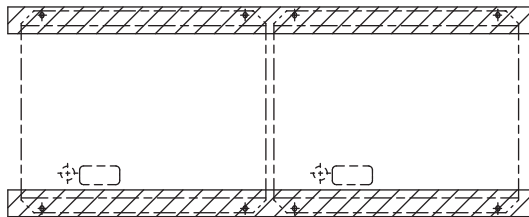
When the pipes are routed at the bottom of the unit, the base should be at least 100 mm [3-15/16 in.] in height.

· RP200, 250, 300

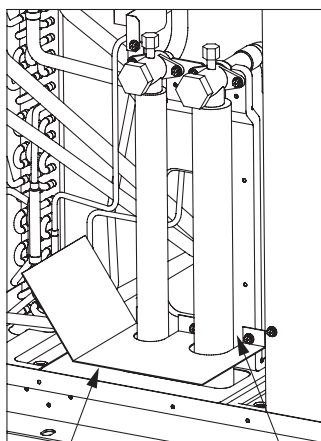
(Unit : mm [in.])



Installation base parallel to the unit's front panel



### 4-3-5. Refrigerant pipe routing



Filler plate  
(not supplied)

Fill the gap at the site

The gaps around the edges of through holes for pipes and wires on the unit allow water or mice to enter the unit and damage its parts. Close these gaps with filler plates.

This unit allows two types of pipe routing:

- Bottom piping
- Front piping

#### **CAUTION**

To prevent small animals, water, and snow from entering the unit and damage its parts, close the gap around the edges of through holes for pipes and wires with filler plates.

## 4. Outdoor Installation

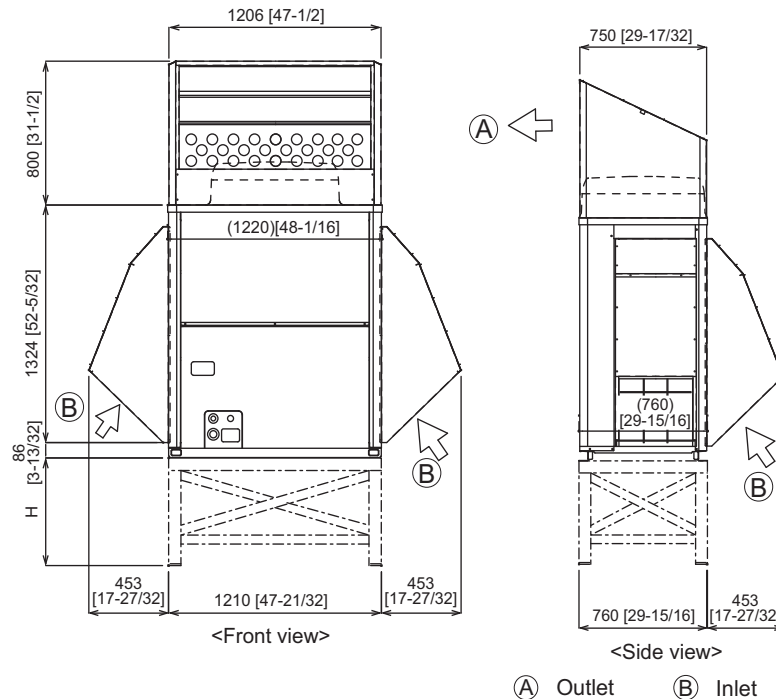
### 4-4. Weather countermeasure

In cold and/or snowy areas, sufficient countermeasures to wind and snow damages should be taken for operating unit in normal and good condition in winter time. Surround the units with snow nets or fences to protect them from snow. Even in the other areas, full consideration is required for installation of unit in order to prevent abnormal operations caused by wind or snow. **When rain and snow directly fall on unit in the case of air-conditioning operations in 10 or less degrees centigrade outdoor air (50 or less degrees fahrenheit outdoor air), mount inlet and outlet ducts on unit for assuring stable operations.**

Countermeasure to snow and wind

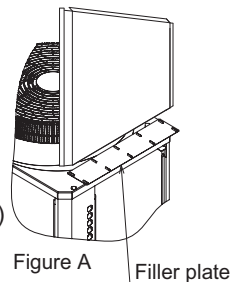
Prevention the Outdoor unit from wind and snow damages in cold or snowy areas, snow hood shown below is recommended and helpful.

- Snow hood



Note:

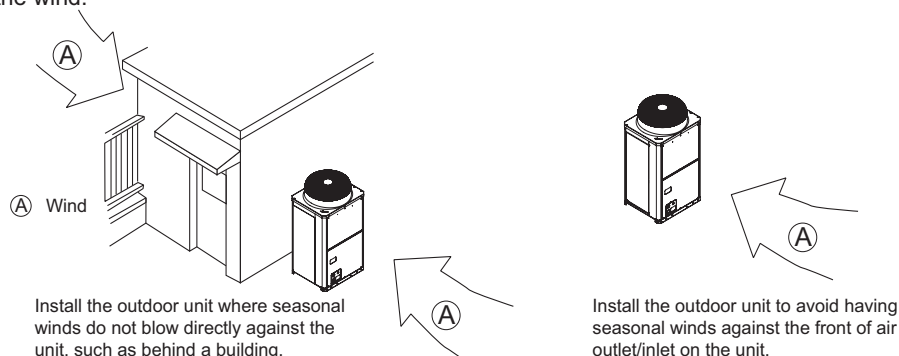
1. Height of frame base for snow damage prevention (H) shall be twice as high as expected snowfall. Width of frame base shall not exceed that of the unit. The frame base shall be made of angle steel, etc., and designed so that snow and wind slip through the structure. (If frame base is too wide, snow will be accumulated on it.)
2. Install unit so that wind will not directly lash against openings of inlet and outlet ducts.
3. Build frame base at customer referring to this figure.  
 Material : Galvanized steel plate 1.2T [1/16 in. T]  
 Painting : Overall painting with polyester powder  
 Color : Munsell 5Y8/1 (same as that of unit)
4. To install units side by side, install a filler plate between the fan guard and the outlet-side snow hood as shown in Figure A.  
 (The filler plate provided accommodates the installation pitch of between 30-80 mm [1-3/16~3-5/32 in.].)
5. When the unit is used in a cold region and the heating operation is continuously performed for a long time when the outside air temperature is below freezing, install a heater to the unit base or take other appropriate measures to prevent water from freezing on the base.



Countermeasure to wind

Referring to the figure shown below, take appropriate measures which will suit the actual situation of the place for installation. A unit installed alone is vulnerable to strong winds. Select the installation site carefully to minimize the effect of winds.

To install a unit in a place where the wind always blows from the same direction, install the unit so that the outlet faces away from the direction of the wind.



## 5. Caution for refrigerant leakage

The installer and/or air conditioning system specialist shall secure safety against refrigerant leakage according to local regulations or standards. The following standard may be applicable if no local regulation or standard is available.

### 5-1. Refrigerant property

R410A refrigerant is harmless and incombustible. The R410A is heavier than the indoor air in density. Leakage of the refrigerant in a room has possibility to lead to a hypoxia situation. Therefore, the Critical concentration specified below shall not be exceeded even if the leakage happens.

#### • Critical concentration

Critical concentration hereby is the refrigerant concentration in which no human body would be hurt if immediate measures can be taken when refrigerant leakage happens.

**Critical concentration of R410A: 0.30kg/m<sup>3</sup>**

**(The weight of refrigeration gas per 1 m<sup>3</sup> air conditioning space.);**

\* The Critical concentration is subject to ISO5149, EN378-1.

For the CITY MULTI system, the concentration of refrigerant leaked should not have a chance to exceed the Critical concentration in any situation.

### 5-2. Confirm the Critical concentration and take countermeasure

The maximum refrigerant leakage concentration (Rmax) is defined as the result of the possible maximum refrigerant weight (Wmax) leaked into a room divided by its room capacity (V). It is referable to Fig.5-1. The refrigerant of Outdoor unit here includes its original charge and additional charge at the site.

The additional charge is calculated according to "3-3 .Refrigerant charging calculation" and shall not be over charged at the site.

Procedure 5-2-1~3 tells how to confirm maximum refrigerant leakage concentration (Rmax) and how to take countermeasures against a possible leakage.

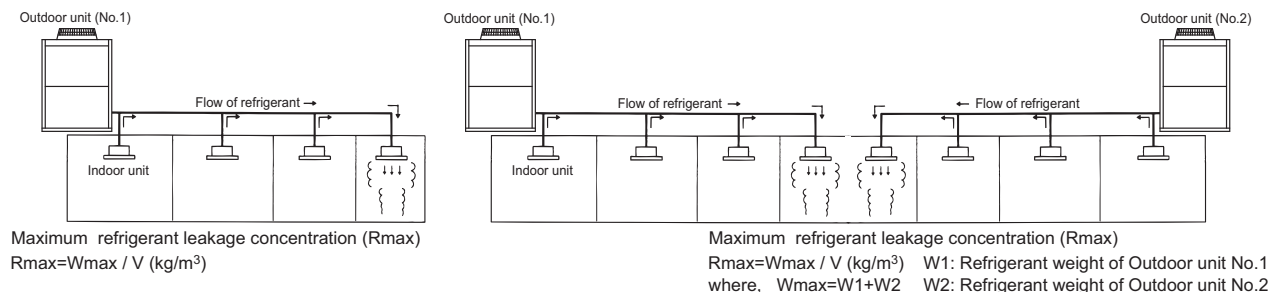


Fig. 5-1 The maximum refrigerant leakage concentration

#### 5-2-1. Find the room capacity (V),

If a room having total opening area more than 0.15% of the floor area at a low position with another room/space, the two rooms/space are considered as one. The total space shall be added up.

#### 5-2-2. Find the possible maximum leakage (Wmax) in the room. If a room has Indoor unit(s) from more than 1 Outdoor unit, add up the refrigerant of the Outdoor units.

#### 5-2-3. Divide (Wmax) by (V) to get the maximum refrigerant leakage concentration (Rmax).

#### 5-2-4. Find if there is any room in which the maximum refrigerant leakage concentration (Rmax) is over 0.30kg/m<sup>3</sup>.

If no, then the CITY MULTI is safe against refrigerant leakage.

If yes, following countermeasure is recommended to do at site.

Countermeasure 1: Let-out (making V bigger)

Design an opening of more than 0.15% of the floor area at a low position of the wall to let out the refrigerant whenever leaked.

e.g. make the upper and lower seams of door big enough.

Countermeasure 2: Smaller total charge (making Wmax smaller)

e.g. Avoid connecting more than 1 Outdoor unit to one room.

e.g. Using smaller model size but more Outdoor units.

e.g. Shorten the refrigerant piping as much as possible.

Countermeasure 3: Fresh air in from the ceiling (Ventilation)

As the density of the refrigerant is bigger than that of the air. Fresh air supply from the ceiling is better than air exhausting from the ceiling.

Fresh air supply solution refers to Fig.5-2~4.

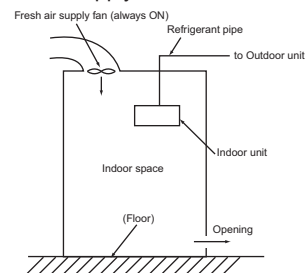


Fig.5-2. Fresh air supply always ON

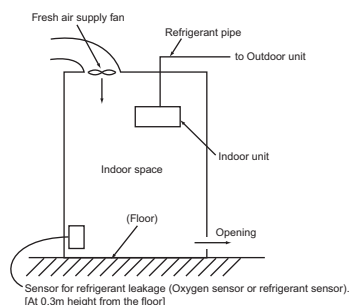


Fig.5-3. Fresh air supply upon sensor action

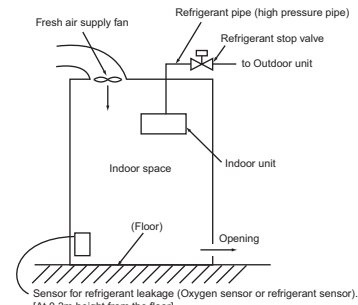


Fig.5-4. Fresh air supply and refrigerant shut-off upon sensor action

Note 1. Countermeasure 3 should be done in a proper way in which the fresh air supply shall be on whenever the leakage happens.

Note 2. In principle, MITSUBISHI ELECTRIC requires proper piping design, installation and air-tight testing after installation to avoid leakage happening.

In the area should earthquake happen, anti-vibration measures should be fully considered.

The piping should consider the extension due to the temperature variation.



# CONTROLLER

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# CONTROLLER

## 4-1. System component

CITY MULTI system can be monitored or controlled with signal to/from the outside as every control board of Indoor unit or Outdoor unit has input/output signal connectors. Independent control to the individual Indoor or Outdoor can be carried out by using these connectors. Yet, for large-scale control, MELANS would be much easier. When using input/output connectors, a dedicated adapter (optional part) and a relay circuit needed to be prepared by the site. Following are some typical examples.

Table 4-1. Control can be achieved by using Outdoor input/output connectors.

| Function                           | Usage                                                                                                                                                                           | Using connector |      | Signal                | Option                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|-----------------------|--------------------------------------------|
|                                    |                                                                                                                                                                                 | PUHY            | PURY |                       |                                            |
| Demand                             | Prohibiting cooling/heating operation (thermo OFF) by an external input to the outdoor unit.<br>* It can be used as the demand control for each refrigerant system.             | CN3D            | CN3D | Input (level-signal)  | Adapter for external input (PAC-SC36NA-E)  |
| Low noise mode                     | Performs a low noise operation of the outdoor unit by an external input to the outdoor unit.<br>* It can be used as the low noise operation device for each refrigerant system. |                 |      |                       |                                            |
| Snow sensor signal input           | Forces the outdoor unit to perform a fan operation by receiving signals from the snow sensor. *4                                                                                | CN3S            | CN3S |                       |                                            |
| Auto-changeover                    | Cooling/heating operation can be changed by an external input to the outdoor unit.                                                                                              | CN3N            | -    | Output (level-signal) | Adapter for external output (PAC-SC37SA-E) |
| Operation status of the compressor | How to extract signals from the outdoor unit.<br>* It can be used as an operation status display device.                                                                        | CN51            | CN51 |                       |                                            |
| Error status                       | * It can be used for an interlock operation with external devices.                                                                                                              |                 |      |                       |                                            |

\*1 For details, refer to 1) through 4) shown below.

\*2 Low noise mode is valid when Dip SW4-4 on the outdoor unit is set to OFF. When DIP SW4-4 is set to ON, 4 levels of on-DEMAND are possible, using different configurations of low noise mode input and DEMAND input settings.

When 2 or more outdoor units exist in one refrigerant circuit system, 8 levels of on-DEMAND are possible. When 3 outdoor units exist in one refrigerant circuit system, 12 levels of on-DEMAND are possible.

\*3 Low noise mode can be switched from ability main to low noise main with Dip SW5-5 on the outdoor unit. Dip SW5-5 OFF: ability main (ability main mode : The sound pressure level is reduced by limiting the maximum fan frequency under the following condition. Cooling mode : outdoor temp. (TH6) < 30°C Heating mode : outdoor temp. (TH6) > 3°C), ON: low noise main.

\*4 When multiple outdoor units exist in one refrigerant circuit system, settings on every outdoor unit (signal input) are required.

\*5 For detailed drawing, refer to "4-2. Outdoor unit input/output connector".

1) SW4-4: OFF (Compressor ON/OFF, Low noise mode)

|               |                         |
|---------------|-------------------------|
| CN3D 1-3P     | 2-level of on-Demand *1 |
| Open          | 100%(No Demand)         |
| Short-circuit | 0%                      |
| CN3D 1-2P     | Low noise mode *2       |
| Open          | OFF                     |
| Short-circuit | ON                      |

\*1 When SW4-4 on the outdoor unit in one refrigerant circuit system is set to ON (4 levels or 8 levels or 12 levels of on- DEMAND), this function cannot be used.

\*2 This function and the 4 levels or 8 levels on-DEMAND function can be used together. Input the order to CN3D 1-2P on the outdoor unit whose SW4-4 is set to OFF.

2) When SW4-4 on one outdoor unit in one refrigerant circuit system is set to ON (4 levels of on-DEMAND) (\*3)

|               |                  |               |
|---------------|------------------|---------------|
|               | CN3D 1-2P        |               |
| CN3D 1-3P     | Open             | Short-circuit |
| Open          | 100% (No DEMAND) | 75%           |
| Short-circuit | 0%               | 50%           |

Note the following steps to be taken when using STEP DEMAND.

Example: When switching from 100% to 50%

|                               |           |      |   |     |   |     |
|-------------------------------|-----------|------|---|-----|---|-----|
| Steps in DEMAND level setting | <WRONG>   | 100% | → | 10% | → | 50% |
|                               | <CORRECT> | 100% | → | 75% | → | 50% |

If the demand settings are switched in the wrong order listed as the wrong example above, the unit may go into thermo OFF mode.

The percentage of the DEMAND listed in the table above is an approximate value based on the compressor volume and does not necessarily correspond with the capacity.

This function and the Low noise mode function cannot be used together.

3) When SW4-4 on the two outdoor units in one refrigerant circuit system is set to ON (8 levels of on-DEMAND) (\*3,\*4)

|                       |               |               |                  |      |               |      |      |
|-----------------------|---------------|---------------|------------------|------|---------------|------|------|
| 8 levels of on-DEMAND |               | No.2 CN3D     |                  |      |               |      |      |
| No.1 CN3D             | 1-2P          | 1-3P          | Open             |      | Short-circuit |      |      |
|                       |               | Open          | Open             | Open | Open          | Open | Open |
|                       | Open          | Open          | 100% (No DEMAND) | 50%  | 88%           | 59%  | 75%  |
|                       |               | Short-circuit | 50%              | 0%   | 38%           | 25%  | 25%  |
| Short-circuit         | Open          | Open          | 88%              | 38%  | 75%           | 63%  | 63%  |
|                       | Short-circuit | Short-circuit | 75%              | 25%  | 63%           | 50%  | 50%  |

4) When SW4-4 on the all outdoor units in one refrigerant circuit system is set to ON (12 levels of on-DEMAND) (\*4)

|                        |               |               |               |               |               |               |               |               |               |               |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 12 levels of on-DEMAND | No.2 CN3D     | 1-2P          | Open          |               |               |               |               |               |               |               |
|                        |               | 1-3P          | Open          |               |               |               | Short-circuit |               |               |               |
|                        | No.3 CN3D     | 1-2P          | Open          |               | Short-circuit |               | Open          |               | Short-circuit |               |
|                        |               | 1-3P          | Open          | Short-circuit | Open          | Short-circuit | Open          | Short-circuit | Open          | Short-circuit |
| No.1 CN3D              | 1-2P          | Open          | 100%          | 67%           | 92%           | 84%           | 67%           | 34%           | 59%           | 50%           |
|                        |               | Short-circuit | 67%           | 34%           | 59%           | 50%           | 34%           | 0%            | 25%           | 17%           |
|                        | Short-circuit | Open          | 92%           | 59%           | 84%           | 75%           | 59%           | 25%           | 50%           | 42%           |
|                        |               | Short-circuit | 84%           | 50%           | 75%           | 67%           | 50%           | 17%           | 42%           | 34%           |
| 12 levels of on-DEMAND | No.2 CN3D     | 1-2P          | Short-circuit |               |               |               |               |               |               |               |
|                        |               | 1-3P          | Open          |               |               |               | Short-circuit |               |               |               |
|                        | No.3 CN3D     | 1-2P          | Open          |               | Short-circuit |               | Open          |               | Short-circuit |               |
|                        |               | 1-3P          | Open          | Short-circuit | Open          | Short-circuit | Open          | Short-circuit | Open          | Short-circuit |
| No.1 CN3D              | 1-2P          | Open          | 92%           | 59%           | 84%           | 75%           | 84%           | 50%           | 75%           | 67%           |
|                        |               | Short-circuit | 59%           | 25%           | 50%           | 42%           | 50%           | 17%           | 42%           | 34%           |
|                        | Short-circuit | Open          | 84%           | 50%           | 75%           | 67%           | 75%           | 42%           | 67%           | 59%           |
|                        |               | Short-circuit | 75%           | 42%           | 67%           | 59%           | 67%           | 34%           | 59%           | 50%           |

\*3 Input the order to CN3D on the outdoor unit whose SW4-4 is set to ON.

\*4 CN3D of No. 1, 2, 3 can be selected arbitrary with the outdoor unit whose SW4-4 is set to ON.

# CONTROLLER

Table 4-2. Control can be achieved by using Indoor input/output connectors.

| Function                                 | Usage                                                                                                                                                                                                                           | Using connector | Signal                  |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------|
| Remote/Local switching *1<br>ON/OFF *2*3 | Indoor group can be controlled ON/OFF by an ON/OFF switching or contact input to the connector of the head Indoor in an Indoor group.<br>It can be interlocked with timer, door, window, or other equipment to "Force stopping" | CN32            | Input<br>(level-signal) |
| ON/OFF *2*3                              | Indoor group can be controlled ON/OFF by an external pulse signal input to the connector of the head Indoor in an Indoor group.                                                                                                 | CN51            | Input<br>(pulse-signal) |
| Demand                                   | Indoor group can be controlled ON/OFF by an ON/OFF switching or contact input to the connector of every Indoor in an Indoor group.                                                                                              | CN52            | Input<br>(pulse-signal) |
| Monitoring ON/OFF state                  | Signal output from a head Indoor unit, presenting its Indoor group.                                                                                                                                                             | CN51            | Output                  |
| Monitoring heating state                 | It can be used for monitoring or interlock with other equipment purpose and so on.                                                                                                                                              | CN52            |                         |
| Monitoring cooling/drying state          |                                                                                                                                                                                                                                 | CN52            |                         |
| Monitoring Error state                   | Signal output from every Indoor unit, for monitoring Error or Thermo-off (fan) state.                                                                                                                                           | CN51            | Output                  |
| Monitoring Thermo-OFF(fan) state         | It can be used for monitoring or interlock with other equipment purpose and so on.                                                                                                                                              | CN52            |                         |

\*1. When switching to Remote, control at Local remote controller will NOT be effective, but the "CENTRALLY CONTROLLED" is displayed.

\*2. MA or ME remote controller is needed for this function.

\*3. If using ON/OFF input function, Automatic-address-start-up can not be performed to start-up the system at commissioning.

\*4. If CITY MULTI use GB-50A/AG-150A and PLC software to control the Indoor unit via its external input/output connectors, Dip Switch 1-9 and Dip Switch 1-10 should be set to ON.

In this case, the input/output connectors act as normal connectors, functions mentioned at Table 4-2 are no more available.

Details are available at the PLC software Instruction Manual.

Table 4-3. ON/OFF control to each Indoor unit (group) by using Dip Switch 9 and 10 (SW1-9, SW1-10) of the Indoor unit.

| Function      | Operation on Indoor units                                                                                        | Setting Dip Switch *1*4 |      |
|---------------|------------------------------------------------------------------------------------------------------------------|-------------------------|------|
|               |                                                                                                                  | 1-9                     | 1-10 |
| Auto ON       | All indoor units will turn ON and automatically resume to its previous mode after 5 minutes from power recovery. | OFF                     | ON   |
| Auto recovery | Indoor unit recovers to its previous state (ON/OFF, mode) after 5 minutes from power recovery.                   | ON                      | OFF  |
| All OFF       | Forced stopping regardless of Indoor units' state.                                                               | OFF                     | OFF  |

\*1. The Dip Switch setting should be carried out on every Indoor unit in the group.

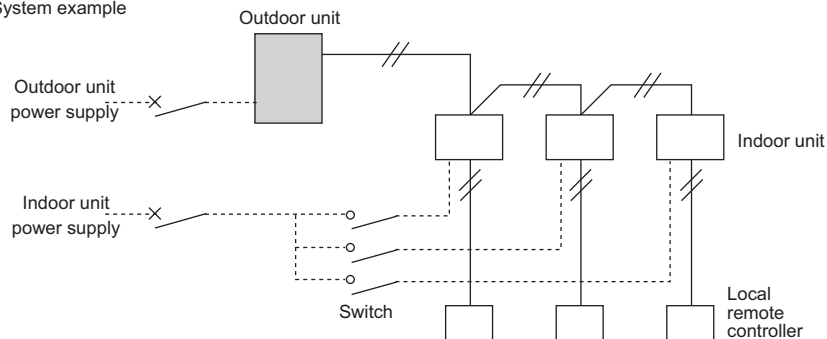
\*2. Outdoor unit's power supply should NOT be cut. Otherwise, power supply to case heater of the compressor would be cut too, which may cause damage to the compressor.

\*3. Above method can not be applied to the power ON/OFF of the drain pump and humidifier equipment.

\*4. If CITY MULTI use GB-50A/AG-150A and PLC software to control the Indoor unit via its external input/output connectors, Dip Switch 1-9 and Dip Switch 1-10 should be set to ON.

In this case, the input/output connectors act as normal connectors, functions mentioned at Table 4-3 are no more available.

## System example



Restart of the CITY MULTI needs to be careful. When no power supply to the outdoor unit, no power supply to the compressor case heater too. The compressor needed to be warmed up before running. When using above functions, power supply to the outdoor unit should be ensured.

Table 4-4. How to use Remote/Local switching connector CN32

| State                           | Local remote controller display and operation                                         | CN32-SW-1<br>for Local/Remote<br>control switching | CN32-SW-2<br>for Remote<br>"ON/OFF" operation |
|---------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------|
| Local remote controller control | Operation is permitted                                                                | OFF                                                | OFF                                           |
| Remote STOP                     | "CENTRALLY CONTROLLED" flashing, "ON/OFF" at local remote controller is not possible. | ON                                                 | OFF                                           |
| Remote START                    | "CENTRALLY CONTROLLED" flashing, "ON/OFF" at local remote controller is not possible. | ON                                                 | ON                                            |

\* For details refer to CN32 in section "4-5. Indoor unit "-E" type input/output connector".

Table 4-5. Limitations to combining system controls

|   | Description                     | Control combining<br>distant/local | Pulse ON/OFF | Power ON/OFF | Automatic recover |
|---|---------------------------------|------------------------------------|--------------|--------------|-------------------|
| 1 | Control combining distant/local | CN32                               | -            | X*1          | X*1               |
| 2 | Pulse ON/OFF                    | CN51                               | -            | O            | O                 |
| 3 | HA ON/OFF(JEMA)                 | CN51                               |              | O            | O                 |
| 4 | Power ON/OFF                    | -                                  |              | -            | X                 |
| 5 | Automatic recover               | -                                  |              |              | -                 |

\*1. Pulse ON/OFF, power ON/OFF and automatic recover can only be used when the remote/local setting CN32 is set to local.

Therefore, always avoid this function when combining control.

4-2. Outdoor unit input/output connector

**Caution:**

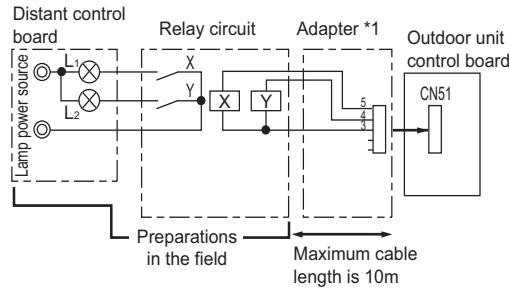
1.Wiring should be covered by insulation tube with supplementary insulation.

2.Use relays or switches with IEC or equivalent standard.

3.The electric strength between accessible parts and control circuit should have 2750V or more.

4-2-1. Output

• State (CN51)

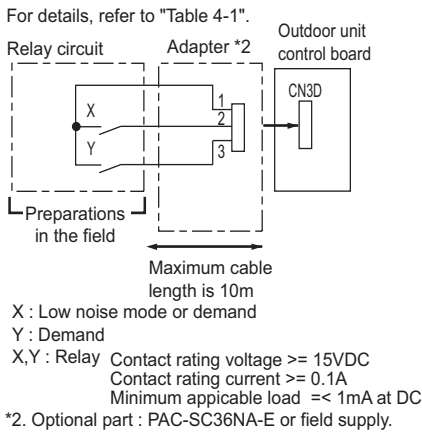


L1 : Outdoor unit error display lamp  
L2 : Compressor operation lamp (compressor running state)  
X, Y : Relay (coil =<0.9W : 12VDC)  
\*1. Optional part : PAC-SC37SA-E or field supply.

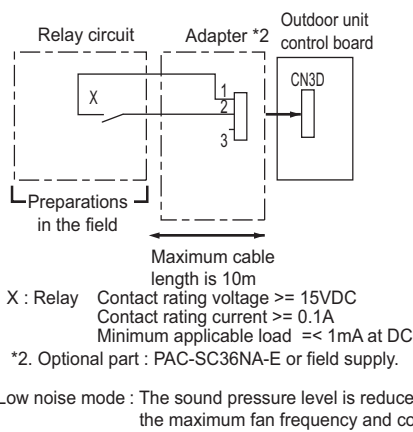
4-2-2. Input

Y, R2 series

(1) Step demand and Low noise mode (CN3D)

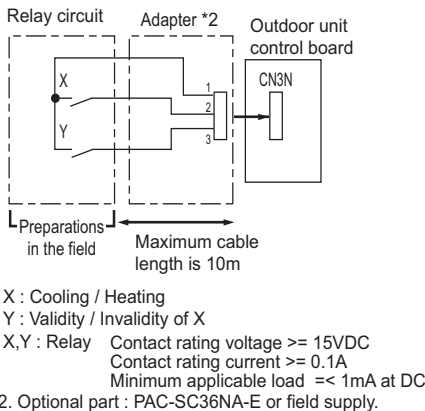


(2) Low noise mode (CN3D + DipSW4-4 OFF)



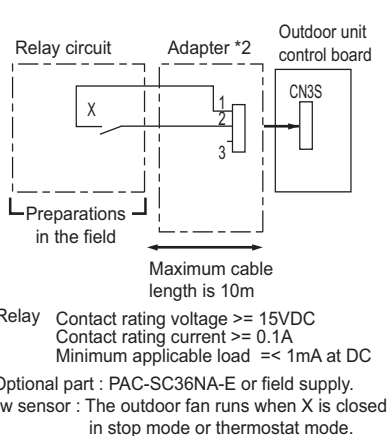
-Note-  
The sound pressure level can not be reduced, when neither the fan frequency nor the compressor frequency are maximum.

(3) Autochangeover (CN3N) (R2 excluded)



|   |     |         |         |
|---|-----|---------|---------|
|   |     | X       |         |
|   |     | OFF     | ON      |
| Y | OFF | Normal  |         |
|   | ON  | Cooling | Heating |

(4) Snow sensor (CN3S)



# CONTROLLER

## 4-3. Indoor unit "-E" type input/output connector



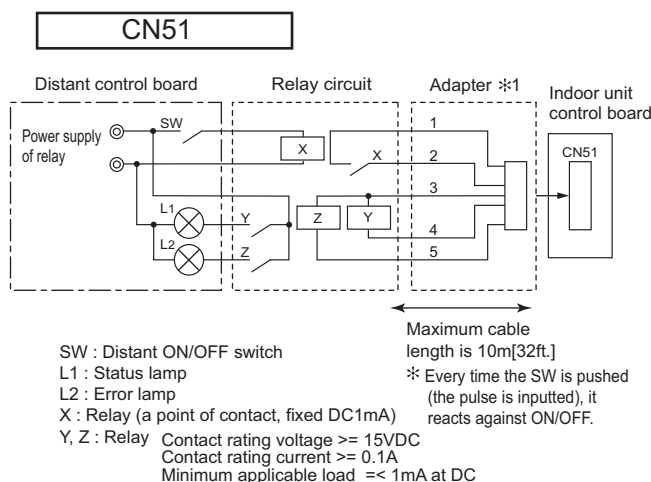
**Caution:**

1. Wiring should be covered by insulation tube with supplementary insulation.
2. Use relays or switches with IEC or equivalent standard.
3. The electric strength between accessible parts and control circuit should have 2750V or more.

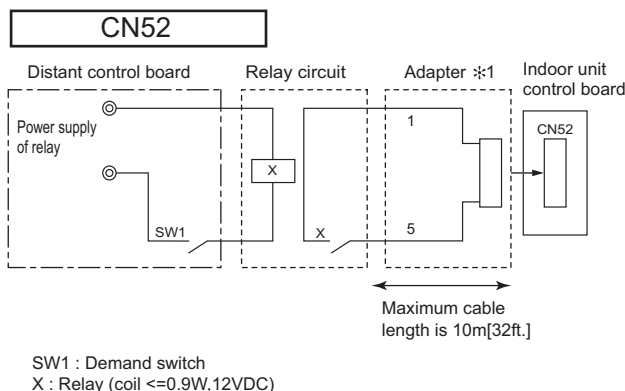
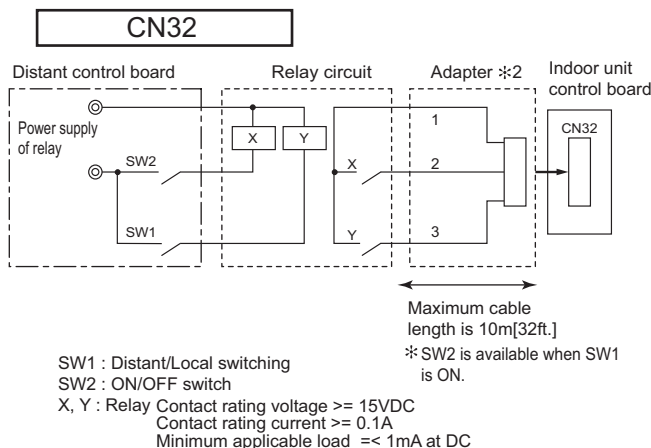
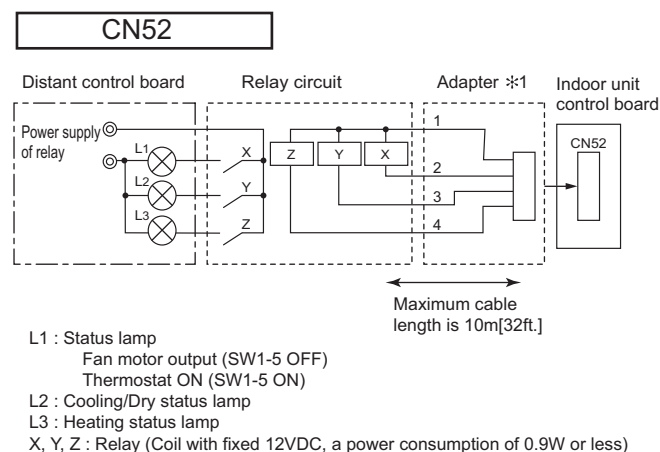
### ● ON/OFF (Pulse) input specification

| Item              | Description            |
|-------------------|------------------------|
| Input signal      | Pulse sign (a connect) |
| Standard of pulse | <br>200msec or more    |

### ● Input



### ● Output



| SW1 | Indoor unit       |
|-----|-------------------|
| ON  | Forced thermo-OFF |
| OFF | Normal running    |

- \* 1. Optional part : PAC-SA88HA-E or field supply  
 \* 2. Optional part : PAC-SE55RA-E or field supply





**DATA BOOK    PUHY-RP-Y(S)JM-A**  
**PURY-RP-YJM-A**

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